Study plan

Name of study plan: 06 40 45 48 BSTR EPT 2012 K základ

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined Required credits: 276 Elective courses credits: -36 Sum of credits in the plan: 240 Note on the plan: první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 199 The role of the block: P

Code of the group: 12B-KMENK TZI STR Name of the group: 01 2012 souhrn skupin 12B*KiP-KMEN pro i od 1 do 6 Requirement credits in the group: In this group you have to gain 156 credits Requirement courses in the group: In this group you have to complete 37 courses Credits in the group: 156

Note on the group	<i>J</i> .					
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
2371047	Automatic Control Milan Hofreiter, R žena Petrová, Tomáš Vyhlídal, Jaromír Fišer Tomáš Vyhlídal Tomáš Vyhlídal (Gar.)	Z,ZK	5	3P+15C+08L	*	Р
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2131512	Machine Elements and Mechanisms I. František Lopot	Z,ZK	6	3P+2C	*	Р
2131026	Machine Elements and Mechanisms II Eliška Cézová, Zden k ešpíro, Martin Dub, Jan Flek, Ji í Houkal, Jan Kanaval, František Lopot, Karel Petr František Lopot František Lopot (Gar.)	ZK	3	3P+0C	*	Р
2141504	Electric Circuits and Electronics Stanislava Papežová, Jan Chyský, Jaroslav Novák, Lukáš Novák Zuzana Sedlecká Jan Chyský (Gar.)	Z,ZK	4	2P+06C+1.4L	*	Р
2141505	Electrical machines and drives Jan Chyský, Jaroslav Novák, Lukáš Novák Jaroslav Novák Jaroslav Novák (Gar.)	Z,ZK	4	2P+06C+14L	*	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2133025	Design František Lopot František Lopot František Lopot (Gar.)	Z	4	0P+4C	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Ρ
2381054	Management and Economics of the Enterprise Theodor Beran, Št pánka Uli ná, Vladimír Brdek, Ladislav Vaniš, Petr Žemli ka Theodor Beran Theodor Beran (Gar.)	Z,ZK	4	2P+2C	*	Ρ
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	*	Ρ
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р

2311101	Mechanics I. Pavel Bastl, Václav Bauma, Petr Beneš, Ivo Bukovský, Martin Ne as, Zden k Neusser, Jan Pelikán, Pavel Steinbauer, Zbyn k Šika, Zbyn k Šika Zbyn k Šika (Gar.)	Z,ZK	4	2P+2C	*	Ρ
2311102	Mechanics II. Pavel Bastl, Václav Bauma, Petr Beneš, Ivo Bukovský, Martin Ne as, Zden k Neusser, Jan Pelikán, Pavel Steinbauer, Zbyn k Šika, Václav Bauma Václav Bauma (Gar.)	Z,ZK	4	2P+2C	*	Ρ
2322029	Materials Science I. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2321039	Materials Science II. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Ρ
2011049	Numerical Mathematics Radka Keslerová, Ji í Holman, Marta ertíková, Vladimír Hric, Petr Louda, Lukáš Hájek, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Petr Svá ek Petr Svá ek (Gar.)	Z,ZK	4	2P+2C	4	Ρ
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study Vladimír Hlavá	KZ	3	1P+1C	*	Р
2181026	Momentum, Mass and Heat Transfer Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas, Tomáš Jirout, Adam Krupica, Ji í Moravec Tomáš Jirout Tomáš Jirout (Gar.)	Z,ZK	5	3P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Martin Dub, Jan Flek, Jan Kanaval, František Lopot, Karel Petr, Martin Havlí ek, Jan Hoidekr, Roman Uhlí Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2133013	Engineering Design III. Jan Kanaval, František Lopot, Jan Hoidekr, David Skalický, Roman Uhlí Jan Kanaval Jan Kanaval (Gar.)	Z	2	0P+2C	Z	Р
2133014	Engineering Design IV. František Lopot František Lopot (Gar.)	Z	2	0P+2C	L	Р
2372083	Measurement in Engineering Martin Novák, Vladimír Hlavá Martin Novák Martin Novák (Gar.)	KZ	3	1P+0C+2L	*	Р
K331068	Technology I	Z,ZK	5	16B	*	Р
K341014	Technology II.	Z,ZK	5	8KP+8KC	*	Р
2012035	Algorithmization and Programming Fundamentals Ji í Holman, Marta ertíková, Vladimír Hric, Lukáš Hájek, Jan Halama, Vladimír Prokop, Martin Hanek, Jan Karel, Josef Musil, Petr Svá ek Petr Svá ek (Gar.)	ΚZ	4	1P+2C	*	Ρ
2153005	Fundamentals of Energy Conversions	Z	1	1P+1C	*	Р
2383001	Fundamentals of Law Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12B-KMENK TZI STR Name=01 2012 souhrn skupin 12B*KiP-KMEN pro i od 1 do 6

2371047	Automatic Control	Z,ZK	5				
Automatic controllers a	Automatic controllers are important part of many industrial processes. The goal of this course is to introduce students into basic knowledge of automatic control theory and practice						
like transfer functions, c	pen versus closed loop control, design of controllers and frequency based analysis of control systems. The course also concer	trates on logic co	ntrol and control				
via programmable logic	controllers. Some seminaries are arranged in laboratories where practical skills and control engineering methods are trained	. Students begin t	o work with				
MATLAB software as a	common platform of control engineers.						
2182019	Chemistry	KZ	3				
General chemistry from	the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and propertie	es of matter, therr	nodynamics,				
phase equilibrium, cher	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioche	emistry. Laborator	y practice is				
oriented upon the mate	rial properties measurement.						
2131512	Machine Elements and Mechanisms I.	Z,ZK	6				
Joints and joining eleme	nts (screwed, clamped, splined, welded, riveted, soldered and adhesive joints; joints with use of feathers, pins, tenons, cotters	, keys). Mechanic	al transmissions				
(belt, chain, friction, gea	ar drives). Seminars are devoted to practical individual solution of simple design projects - tasks with motion screws, preloade	d connecting bolt	s, clamped,				
pressed, splined and ke	y joints between shafts and hubs and tasks with welded and riveted joints. Sketching of machine elements and their simple as	sembly units is als	so indispensable				
seminar work.							
2131026	Machine Elements and Mechanisms II	ZK	3				
Preliminary design, des	ign calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanis	n, pipelines and t	heir accessories				
and fittings.							
2141504	Electric Circuits and Electronics	Z,ZK	4				
Introduction into theory	of electrical circuits, analysis special types of electrical circuits as DC and AC. Transient states in circuits with accumulators	of energy. El. Powe	er and Energy.				
Introduction into electro	nics. Principle and typical parameters of basic semiconductor components. Application in electronic circuits (rectifier, stabilize	r, power control,	operational				
amplifier). Analogue and digital circuits. Principle of analogue and digital signal processing. Logical circuits, converters, microprocessor.							
2141505	Electrical machines and drives	Z,ZK	4				
AC el. curcuits. Electric	al power and energy. Calculation, measurement, power factor. Magnetic circuit, materials, hysteresis loop. Electromagnet. Tra	sformer, principle	e, construction,				
3-phase transformer, operating conditions, rated (scheduled) values. Induction machine, principle, construction, operating conditions. Starting, speed-torque characteristic, speed							
control. Synchronous m	achines. DC-machines, principle, parameters, operating conditions, construction, starting, speed control, speed-torque charac	cteristic. Low-volta	age instruments.				
Low-voltage distribution	i system.						

2021041 Kinematics and dynami	Physics I. cs of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	Z,ZK properties of bod	7 lies. Oscillations,			
waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression,						
measurements of 11 va	rious experiments related to the lectures.					
2021025 Faraday's law of electron	Physics II. nagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of	Z,ZK electromagnetic w	4 aves. Interaction			
of radiation with matter. Spectra, x-rays, ;laser. I	Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	nd periodic system operiments related	n of elements. d to the lectures.			
2133025	Design	Z	4			
Design, design calculat	ions and their aplications in case of geared transmissions, axles and shafts, sliding and rolling bearings, shaft couplings and	clutches.	6			
2011021 The subject is focused	CONSTRUCTIVE GEOMETRY	Z,ZK	6			
2381054	Management and Economics of the Enterprise	Z,ZK	4			
The subject is intended	to teach the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasonable and the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasonable and the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasonable and the students of the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasonable and the students of the s	oning and to help t	hem understand			
the basic relationships	between economic quantities costs - revenues, expenses - incomes and other basic economic terms. The goal is for the audi	ence to be able to	communicate			
technician will encounte	inizations, every product or service is valued at a selling price and therefore it is necessary to understand the simple costing er reports and should understand the basic structure of financial statements. As a future manager, he will compile and approv	e the operating bu	idaet. In the field			
of management, they w	ill learn basic managerial functions and their content. Furthermore, they will learn how to use network analysis in project mar	agement. For de	cision-making			
purposes, they will lear	n the applications of multi-criteria decision-making. The basics of marketing and strategic management will be introduced.					
2011056	Mathematics I	Z,ZK	8 Studente			
will also get to know the	procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area	s: eigennumbers a	and eigenvectors			
of a matrix, Taylor polyr	iomial, integral as a limit function, integration of some special functions.	<u>j</u>	<u>.</u>			
2011062	Matematika II.	Z,ZK	8			
Open and closed set, b	oundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differe	ntial operators div	(divergence)			
and curl (rotation). Func	tion given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integrated and spherical ecordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Cr	ral, Fubini theoren	n. Iransformation			
field, independence of a	a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector function and a vector function.	ctor field through	a surface. The			
Gauss-Ostrogradskij th	eorem.					
2011009	Mathematics III	Z,ZK	5			
An introductory course	in ordinary differential equation and infinite series.					
2311101 Machanica I deale with	Mechanics I.	Z,ZK	4			
There are introduced th	e methods of description of position and motion of particles and rigid bodies.	systems with and	a without inction.			
2311102	Mechanics II.	Z.ZK	4			
Kinematics of point and	of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motio	n, spherical motio	n, screw motion,			
general spatial motion.	Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and	ector method. Gr	aphical methods			
in kinematics. Basic the	ory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms.	1/7	2			
2322029 History and present sta	Materials Science I. te of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, def	ר∠ ormation, recrvsta	ى allization and			
fracture of materials, st	ructure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	on-carbon phase	diagram.			
2321039	Materials Science II.	Z,ZK	4			
Fundamentals of metal	urgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	d thermo-mechar	nical processing,			
technical iron-carbon ai	loys, non-terrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.	7 71/	4			
2011049 Numerical solution of sv	NUMERICAL MALTERTATICS stems of linear equations, iterative methods. Numerical solution of nonlinear algebraic equations. Least squares method. Numer	∠,∠r∖ rical solution of or	4 dinary differential			
equations, initial and bo	pundary value problems. Numerical solution of basic linear partial differential equations by finite difference method.					
2012037	Computer Graphics	KZ	3			
2372041	Computer Support for Study	KZ	3			
The course introduces	students into creating technical and professional documents on computers or Web and into realizing technical computations w	ith the use of com	puters. Students			
2181026	Momentum Mass and Heat Transfer	7 7K	је. 5			
Fundamentals of transp	province normalized in the contract of the con	al energy equation	on. Residence			
time distributions in con	tinuous systems. Conduction heat transfer. Forced and natural convection heat transfer. Heat transfer with phase changes and	thermal radiation.	Multicomponent			
systems. Mass transfer	by molecular diffusion, convection, with chemical reactions and interphase mass transfer.					
2131002 Bringiples of ISO CBS (Engineering Design II Competing Products Specification) Students will get critical knowledge about ISO system of limits and fits televancing, surf	Z,ZK	4			
dimensional loops, tole	rancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	ir knowledge from	n lectures.			
2133013	Engineering Design III.	Z	2			
Design of assembly uni	t (draft drawing, detail drawing, assembly drawing, technical report)	_	-			
2133014	Engineering Design IV.	Z	2			
2372083 Overview of sensor prin	IVIEASUREMENT IN ENGINEERING	KZ	3			
instruments.	יסוףיט וסי הוכמטורפורפור טי חטריפופטורטמו אמחמטופט (נפוויוףבימנטרפ, אסטונטרו, וטרטפ, טאפט, מטטפובומנוטרו, נטויענצ). כאווטואנוטרו אונ		aourement			
K331068	Technology I	Z,ZK	5			
Foundry properties of m	etals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of I	orming processes	. Semi-products,			
heating-up, Cutting, Col	d and bat forming Wolds Woldshility Woldmant testing Thermal outling Presing Surface treatment					

2012035	Algorithmization and Programming Fundamentals					
Programming in MATLA	B and its programming language. MATLAB command line. Elementary commands, variable, assignment and expression. Ma	trices, vectors and	d operations.			
Writting M-script. Input	and output. Condition and cycle. Algorithmization of simple problems in MATLAB. Graphical commands. Matrix operations. Sy	/stems of linear e	quations. Scripts			
and functions. Structure	e of program. Variables, expressions, assignment, and input / output commands. switch. For cycle. Arrays and files. Pointers. S	Structures. Algorit	hmization of			
simple programs: minin	num, mean, norm, numerical integration, bisection method, Newton method, matrix operations. Direct methods for solution of	systems of linear	equations.			
2153005	Fundamentals of Energy Conversions	Z	1			
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

Code of the group: 12B*K*P-ZT12

Name of the group: 04 2012 kombinované ZT v po adí 12

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

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

Credits in the group: 6

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

Characteristics of the courses of this group of Study Plan: Code=12B*K*P-ZT12 Name=04 2012 kombinované ZT v po adí 12

K333038

Fundamentals of Technology I.

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

3

Code of the group: 12BS*7P-EPT

Name of the group: 12 2012 BSTR 7.sem povinné EPT

Requirement credits in the group: In this group you have to gain 20 credits

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

Credits in the group: 20

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
2151165	Hydraulic and Pneumatic Machines	Z,ZK	5	2P+2C	*	Р
2151090	Industry power and heating plant	Z,ZK	5	2P+2C	*	Р
2151554	Thermal Turbines	Z,ZK	5	2P+2C	*	Р
2151559	Heat Exchangers and Boilers	Z,ZK	5	2P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BS*7P-EPT Name=12 2012 BSTR 7.sem povinné EPT

2151165	Hydraulic and Pneumatic Machines	Z,ZK	5			
Classificiation and princ	Classificiation and principles of operation of hydraulic machines. Criterions of hydrodynamical similarity. Hydraulic systems. Differend types of pumps, construction, capacity control					
and operation in various	s conditions. Theory of compression processes. Constructions, calculation, capacity control of compressors, operation with va	arious gases. Refi	rigerating			
compressors. Accessor	ies of a compressor stations and plants. Economical and ecological problems of a compressed air production and distribution	۱.				
2151090	Industry power and heating plant	Z,ZK	5			
2151554	Thermal Turbines	Z,ZK	5			
2151559	Heat Exchangers and Boilers	Z,ZK	5			

Code of the group: 12BS*8P-EPT Name of the group: 15 2012 BSTR 8.sem povinné EPT Requirement credits in the group: In this group you have to gain 17 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 17 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2151118	Distributed Energy	Z,ZK	5	2P+2C	*	Р
2151117	Design of Power Facilities	Z,ZK	5	2P+2C	*	Р
2153006	Technology of Air Protection in Power Engineering	Z	2	0P+2C	*	Р
2151158	Principles of Refrigerating Technology and Heat Pumps	Z,ZK	5	2P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BS*8P-EPT Name=15 2012 BSTR 8.sem povinné EPT

2151118 Distributed Energy	Z,ZK	5
2151117 Design of Power Facilities	Z,ZK	5
2153006 Technology of Air Protection in Power Engineering	Z	2
2151158 Principles of Refrigerating Technology and Heat Pumps	Z,ZK	5

Name of the block: Compulsory elective courses Minimal number of credits of the block: 45 The role of the block: PV

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

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

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 6) Requirement courses in the group: In this group you have to complete at least 1 course (at most 3) Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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

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

2383009Communication and Dealing with PeopleZ2Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to
the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.Z2

Code of the group: 12B**4Q-BZJ S+T

Name of the group: 08 2012 bakalá ské zkoušky z jazyk pro STR a TZIS 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: Součástí tohoto bakalářského studijního programu je povinnost vykonat zkoušku z jednoho cizího jazyka. Student ji může vykonat kdykoliv v průběhu studia. Administrativně je předmět přiřazen ke studijnímu plánu čtvrtého semestru druhého ročníku, neboť se předpokládá, že si student během předcházejících semestrů nejprve doplňuje v jazykových kurzech (volitelných předmětech) jazykové znalosti zejména v oblasti odborné terminologie

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 Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice (Gar.)	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z,ZK	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12B**4Q-BZJ S+T Name=08 2012 bakalá ské zkoušky z jazyk pro STR a TZIS

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

Code of the group: 12BS*6Q-OP

Name of the group: 10 2012 BSTR 6. sem oborové projekty

Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2

Note on the group:

Student si vybere předmět příslušný oboru, který studuje

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
2372091	Project	KZ	2	0P+2C	*	PV
2362091	Project	KZ	2	0P+2C	*	PV
2152091	Deparmental Project	KZ	2	0P+2C	*	PV
2182091	Project Tomáš Jirout	KZ	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*6Q-OP Name=10 2012 BSTR 6. sem oborové projekty

2372091	Project	KZ	2		
An individual project fro	An individual project from the branch of specialisation, which student will study on his/her magister level				
2362091	Project	KZ	2		
2152091	Deparmental Project	KZ	2		
2182091	Project	KZ	2		
Absolvent se seznámí se základy oboru Procesní technika.					

Code of the group: 12BS*6Q-PP

Name of the group: 11 2012 BSTR 6. sem prezentace projekt Requirement credits in the group: In this group you have to gain 4 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 4 Note on the group:

2363091 nesepsán Student si vybere předmět příslušný oboru, který studuje

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
2153091	Presentation of Project	Z	4	4B	*	PV
2363091	Project Presentation	Z	4	4B		PV
2373091	Project presentation	Z	4	4B	*	PV
2183091	Project Presentation Tomáš Jirout	Z	4	0P+4C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*6Q-PP Name=11 2012 BSTR 6. sem prezentace projekt

2153091	Presentation of Project	Z	4	
2363091	Project Presentation	Z	4	
2373091	Project presentation	Z	4	
Diploma thesis or bachelor work presentation. Student should study the presentation software possibilities and proposition of the department. Student should prepare the presentation				
of actual version of his diploma or bachelor work and present it in the face of the other student. The presentation will continue with discussion. Consequently, the work should be				

presented as a pdf file on a temporal web page.

Code of the group: 12BS*7Q-EPT-P1

Name of the group: 13 2012 BSTR 7.sem 1povvol EPT-P1

Requirement credits in the group: In this group you have to gain 5 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 5

Note on the group:

Kód předmětu Projekt I. se zapisuje podle ústavu: 2153707 Ústav energetiky a 2183707 Ústav procesní a zpracovatelské techniky

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
2183707	Project I. Radek Šulc, Lukáš Krátký Lukáš Krátký Lukáš Krátký (Gar.)	Z	5	0P+7C	*	PV
2153707	Project I.	Z	5	0P+7C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*7Q-EPT-P1 Name=13 2012 BSTR 7.sem 1povvol EPT-P1

2183707	Project I.	Z	5		
Project, dimensioning and designing solution of basic elements for process technology.					
2153707	Project I.	Z	5		

Code of the group: 12BS*7Q-EPT-ZAM

Name of the group: 14 2012 BSTR 7.sem 1povvol EPT-zam

Requirement credits in the group: In this group you have to gain 5 credits

Requirement courses in the group: In this group you have to complete 1 course

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
2181502	Hydromechanical Equipment Tomáš Jirout Tomáš Jirout (Gar.)	Z,ZK	5	2P+2C	*	PV
2151002	Nuclear Power Principles	Z,ZK	5	2P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*7Q-EPT-ZAM Name=14 2012 BSTR 7.sem 1povvol EPT-zam

2181502	Hydromechanical Equipment	Z,ZK	5			
Design, principles and basic calculations of following equipment: pipes and pipe networks, packed and bubble columns, filters, settlers, centrifuges and cyclones, fluidized beds, mixing						
equipment, silos and co	nveyors, crushers and mills, granulators, extruders, injection and blow moulding machines, rolls and calenders.					
2151002	Nuclear Power Principles	Z,ZK	5			
Physical fundamentals of nuclear energy. Development and heat removal from core. Basic materials for nuclear reactors. Basic types of nuclear reactors. Review of advanced types						
of nuclear reactors. Fuel cycle. Reactor radiation, detection and quantification, determination of radiation doses. Problems of nuclear safety and technical provisions.						

Code of the group: 12BS*8Q-EPT-BP

Name of the group: 16 2012 BSTR 8.sem 1povvol EPT-BP

Requirement credits in the group: In this group you have to gain 5 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 5 Note on the group:

Kód předmětu Bakalářská práce se zapisuje podle ústavu: 2153985 Ústav energetiky 2183985 Ústav procesní a zpracovatelské techniky

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
2183985	Bachelor Thesis Tomáš Jirout	Z	5	0P+6C	*	PV
2153985	Bachelor Thesis	Z	5	0P+6C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*8Q-EPT-BP Name=16 2012 BSTR 8.sem 1povvol EPT-BP

2183985	Bachelor Thesis	Z	5			
Bachelor thesis is final individual work. This work checks ability of logical independent technical thinking and treatment with technical materials. There is applied acquired knowledge from previous study periods.						
2153985	Bachelor Thesis	Z	5			

Code of the group	o: 12BS*8R-EPT-ZAM					
Name of the grou	p: 17 2012 BSTR 8.sem 2povvol EPT-zam					
Requirement crec	lits in the group: In this group you have to gain 2	0 credits				
Requirement coul	rses in the group: In this group you have to comp	lete 2 cours	ses			
Credits in the grou	up: 20					
Note on the group	Ze skupiny PV předm	iětů nutno d v	a volit			
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
2181507	Diffusion separation equipment Radek Šulc, Vojt ch B lohlav Radek Šulc Radek Šulc (Gar.)	Z,ZK	5	2P+2C	*	PV
2152028	Energy Audit and Legislation	KZ	5	2P+2C	*	PV
2151702	Renewable Energy Sources	Z,ZK	5	2P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BS*8R-EPT-ZAM Name=17 2012 BSTR 8.sem 2povvol EPT-zam

2181507	Diffusion separation equipment	Z,ZK	5		
Classis from Equipment for diffusion separation processes are giving a basic knowledge of processes and equipments where gas or liquid mixture is been separated due to principals					
of physical-chemical equilibriums or on the basis of mass transfer mechanisms. They are used for concentrating of products from dilute solutions or in turn for purification of diluted					
gasses or liquid solutions.					
2152028	Energy Audit and Legislation	KZ	5		
2151702	Renewable Energy Sources	Z,ZK	5		
2181508	Heat transfer equipments	Z,ZK	5		
Fundamentals of thermodynamics and conductive and convective heat transfer. Enthalpy balancing. Technical thermodynamics and basic thermodynamic cycles. Functional description,					
mechanical design, thermal and hydraulic design of a heat exchangers, evaporators and dryers.					

Name of the block: Elective courses Minimal number of credits of the block: 32 The role of the block: V

2181508

Heat transfer equipments

Code of the group: 12BS**V-ALFA Name of the group: 02 2012 ALFA volitelné pro STR Requirement credits in the group: In this group you have to gain 32 credits Requirement courses in the group: In this group you have to complete 12 courses Credits in the group: 32 Note on the group: Předměty typu Alfa (A) nejsou u studijního programu B2341 Strojí

Martin Dostál, Stanislav Solna Martin Dostál Martin Dostál (Gar.)

Předměty typu Alfa (A) nejsou u studijního programu B2341 Strojírenství povinné, avšak jsou povinné u studijního programu B2342 Teoretický základ strojního inženýrství.

Z,ZK

5

2P+2C

ΡV

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
202A025	Physics II.A	ZK	2	0P+0C	*	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
201A009	Mathematics III.A Stanislav Kra mar	ZK	2	0P+0C	*	V
201A049	Numerical Mathematics A Lud k Beneš	ZK	2	0P+0C	*	V

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

 202A041
 Physics I.
 ZK
 3

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

202A025	Physics II.A	ZK	2			
Faraday's law of electror	nagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of	electromagnetic w	aves. 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 experiments related to the lectures.						
201A021	Constructive Geometry A	ZK	3			
The subject is focused of	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.					
201A056	Mathematics I.A	ZK	4			
Introduction to linear alg	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable					
201A062	Mathematics II.A	ZK	4			
Open and closed set, bo	pundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differe	ential operators div	/ (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, cyli	ndrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gr	een'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 vec	ctor field through a	a surface. The			
Gauss-Ostrogradskij the	eorem.					
201A009	Mathematics III.A	ZK	2			
201A049	Numerical Mathematics A	ZK	2			

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

Name of the group: 05 2012 doporu ené seminá e

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

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

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

2026016	Physics - Seminar	Z	2
The subject is mainly 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:

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 Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	z	2	0P+2C	Z	V

2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech - Advanced Jaroslava Kommová	Z	2	0P+2C	L	v
2046117	Czech - Advanced Jaroslava Kommová	Z	2	0P+2C	Z	V
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I.	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II.	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 Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate 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 Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046161	Presentations in English Michaela Schusová	Z	2	0P+2C	*	V

2046166	Presentations in Czech Jaroslava Kommová	Z	2	0P+2C	*	V
2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	V
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	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 communication	ve 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
Mapped to the Common	European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school
or at his/her free time a	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvement	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: comprehensio	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writt	en and oral skills	on advanced
level. Ability to write a s	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fiel	d of studies witho	out difficulties.
Grammar structures on	advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Common	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	nglish without gre	eat difficulties
and active participation	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre-	ension of popula	r-scientific and
scientific articles or text	s from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072	English - Upper Intermediate	Z	2
The aim is to extend lan	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	English speech a	and conversation
about topics of everyda	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		
2046073	English - Upper Intermediate	Z	2
Mapped to the Common	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Eng	lish and commor	ו professional
terminology. Compreher	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broa	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
Aim: Basic vocabulary of	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (pi	ofessional langua	age). A1
2046069	English - Beginners	Z	2
Mapped to the Commor	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	ling and use of ba	asic expressions
of general scientific terr	ninology (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 the	nem. Writing in a sir	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	U	. ,
2046125 Czech Lower Intermediate	7	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	nem. Writing in a sir	nple wav about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046118 Czech -Advanced	7	2
Manned to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	Czech without area	at difficulties and
active participation in a discussion. Written and oral skills on advanced level Ability to write a summary a report an essay Reading and comprehe	ension of popular-sc	ientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level	noion or popular oo	
20/6117 Czech -Advanced	7	2
Comprehension of snoken language as well as lectures in Czech on tonics familiar to the student Communication with native sneakers, participation		
Written skills Ability to write an essay or a renort Reading and understanding texts concerning currant issues and nonular scientific and technical	articles	cooling opinions.
The state of the s		2
2040 12/ C2ech - Oppen intermediate		Z
Understanding standard speech about raminal matters that a student meets at work, at school, during nee time, and taking about these topics. At	inty to describe exp	enences and
evenis, brieny explain one's opinions and plans. Reading and inderstanding general and technical texts.	7	0
2046128 Czech - Opper Intermediate		Z
Mapped to the Common European Framework or Reference Level A2-B1. The aim is to extend language skills taking into consideration profession	al Czech and comm	ion professional
terminology. Comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during nee time, on intelligence tophical longuage	ernediale level. Bro	adening the
		0
2046119 Czech Language for Beginners I.		2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	ssional language)	
2046120 Czech Language for Beginners II.	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	anding and use of ba	asic expressions
of general scientific terminology (professional language).		
2046086 French - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	/riting in a simple wa	ay about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087 French - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which	ch a student meets	at school or in
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvemen	t of professional lan	iguage.
2046091 French - Advanced	Z	2
Mapped to the level of common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on	topics familiar to the	e student.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading	and understanding f	texts concerning
currant issues and popular scientific and technical articles.		
2046090 French - Advanced	Z	2
Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participat	ion in discussions.	Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and	technical articles.	
2046089 French - Upper Intermediate	Z	2
Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students	comes across at w	ork, at school,
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and unders	tanding general and	d technical texts.
2046088 French - Upper Intermediate	7	2
Understanding standard speech about familiar matters that a student meets at work at school, during free time, and talking about these topics. Ab	ility to describe exp	eriences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	inty to decembe out	
2046084 French - Beginners	7	2
Inderstanding clearly what is snoken about everyday situations which a student meats at school or in his/her free time and sneaking about them. W	<u>~</u> Vriting in a simple w	av about familiar
Unice standing and comprehension of simple texts Improvement of professional language	mang in a simple w	ay about laminar
201605 For the second s	7	2
Autouou Freduli - Degli illei 5 Ouli Se Manned to the level of Common European Framework of Poferoneo: A1 Aim: Understanding electly what is analysis shout eventees whit		∠ at school or in
his/her free time and speaking about them. Writing in a simple way about familiar tonics. Reading and comprehension of simple toxis. Improvious	a a suuteni meets a	
2146060 Indonacion Languago Courses for Evolution		.yuuyu. 0
2140000 Indonesian Language Course for Exchange		2
2140001 Iecnnical Indonesian - Course I.	<u> </u>	2
Second part or indonesian Language for Student Exchange Program to Indonesia		-
2144062 Technical Indonesian - Course II.	Z,ZK	3
Basic of Indonesian Language for Student Exchange Program to Indonesia		
2046078 German - Lower Intermediate Course	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	nem. Writing in a sin	nple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079 German - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations wh	ich a student meets	either at school
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvem	ent of professional	language.
2046083 German - Advanced Course	Z	2
Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given	in German without	great difficulties
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comp	rehension of popula	ar-scientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046082 German - Advanced Course	Z	2
Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	ation in discussions.	Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and		
	technical articles.	
2046081 German - Upper Intermediate Course	technical articles.	2
2046081 German - Upper Intermediate Course Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students	technical articles.	2 ork, at school.

2046080	German - 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. Abili	ity to describe exp	periences and
events, briefly explain on	e s opinions and plans. Reading and understanding general and technical texts.		
2046076	German - Beginners	Z	2
Basic vocabulary of ever	yday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	sional language)	I
2046077	German - Beginners	7	2
Manned to the level Corr	Somman European Framework of Reference A1 Basic vocabulary of everyday life in a written and snoken form. Understanding	and use of basic	expressions of
general scientific termino	logy (professional language)		
2046161	Brosontations in English	7	2
2040101	Fresentations in English	<u> </u>	<u> </u>
Preparing students to pr	esentin English on recimical topics, with a possible co-operation with specialized departments.	7	-
2046166	Presentations in Czech	ΙZ	2
Preparing students to give	ve presentations in English on technical topics, with a possible co-operation with specialized departments.		r
2046162	Presentations in German	Z	2
Preparation for presentin	g technical topics in German, possibly in cooperation with specialized departments.		
2046164	Presentations in Russian	Z	2
Preparation for presentin	ig technical topics in Russian, possibly in cooperation with specialized departments.		I
2046163	Presentations in French language	7	2
Preparation for presentin	or technical topics in French, possibly in cooperation with specialized departments	-	-
2046165	greaning for the second strain provide the second strain the spontaneous department.	7	2
ZU40100	r reservations in Opalisi	<u> </u>	
Preparation for presentin	g termical topics in Spanish, possibly in cooperation with specialized departments.		
2046137	Russian - Lower Intermediate Course	Ζ	2
Understanding clearly wi	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	ay about familiar
topics. Reading and com	prehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
Mapped to the level of C	ommon European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stu	ident meets at scl	hool or in his/her
free time and speaking a	bout them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	ssional language.	
2046141	Russian - Advanced	Z	2
Comprehension of spoke	an language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participati	ion in discussions	. Expressing
opinions. Written skills. A	bility to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	chnical articles.	1
20/61/2	Russian - Advanced	7	2
Manned to the level of C	nussian - Auvanceu	<u>~</u>	
Communication with nati	to mont European Hanework of reference. Dir - Dz Comprenension of spoken ranguage as went as rectaines in transition of the second	opics laminar to tr	toxts concorning
currant issues and popul	ve speakets, participation in uscussions. Expressing opinions, whiten skins, Ability to write an essay of a report, reading all the colorities and technical acticities	iu unuerstanuing	texts concerning
	an submitte and technical at tubes.	7	0
2046140	Russian - Opper Intermediate		<u> </u>
Mapped to the level of C	ommon European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student r	neets at work, at s	school, during
free time, and talking ab	out these topics. Ability to describe experiences and events, briefly explain one s opinions and plans. Reading and understa	inding general and	d technical texts.
2046139	Russian - 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. Abili	ty to describe exp	periences and
events, briefly explain on	e's opinions and plans. Reading and understanding general and technical texts.		
2046136	Russian - Beginners	Z	2
Mapped to the level of C	ommon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understandi	ing and use of bas	sic expressions
of general scientific term	inology (professional language)		
2046135	Russian - Beginners	7	2
Basic vocabulary of ever	videv life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	sional language)	-
2046000	Spanish Lawer Intermediate	7	2
Append to the level of C	Spaniai - Lower milerineurale	<u> </u>	
free time and apacking a	ommon European ranework of keleferice Az official standing clearly what is spoken about every day situations which a su		
nee time and speaking a	boot them. Whiling in a simple way about taminar topics. Reading and comprehension of simple texts, improvement of prote		-
2046098	Spanish - Lower Intermediate		2
Understanding clearly wi	nat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	ay about familiar
topics. Reading and com	prehension of simple texts. Improvement of professional language.		
2046096	Spanish - Beginners	Z	2
Aim:Understanding clear	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sim	nple way about
familiar topics. Reading a	and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the Common	European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a	student meets at	school or in
his/her free time and spe	aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lar	nguage.
· ·			

List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
	An introductory course in ordinary differential equation and infinite series.		
2011021	Constructive Geometry	Z,ZK	6
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	

	1		n
2011049	Numerical Mathematics	Z,ZK	4
Numerical solution	of systems of linear equations, iterative methods. Numerical solution of nonlinear algebraic equations. Least squares method. Numerical	solution of ordinar	y differential
	equations, initial and boundary value problems. Numerical solution of basic linear partial differential equations by finite difference	method.	
2011056	Mathematics I	Z.ZK	8
In the course, grea	, ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	s between concep	ts. Students
will also get to know	v the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: e	igennumbers and e	eigenvectors
0	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	0	0
2011062	Matematika II	7 7K	8
Open and closed	set boundary in EAk Real function of k-variables Partial derivatives and differentiability Gradient and directional derivative Different	al operators div (d	
and curl (rotation)	Set, boundary in E. K. real runcion of k-variables. I alter derivatives and unremaining or alter in and aneculoral derivative. Directing	Eubini theorem Tra	insformation
of intograls to pole	required given implicitly, clocal and global (- absolute) extremes of a function of more variables. Double integra, whithe (- angle) megra, is a variable of the sector and vector function. Considering and Cross	's theorem A note	ntial voctor
field independen	a, cylindidal and spherical coordinates. A simple should cure a dia interintegra of a scalar and vector function, circulation and offer	r field through a a	
	Ce of a line integral of the part. Simple should surace and surace integral of a scalar function and a vector function. How of a vector	i neiu iniougn a si	inace. me
0040005	Gauss-Ostrograuskij mediem.	1/7	
2012035	Algorithmization and Programming Fundamentals	KZ	4
Programming in	MATLAB and its programming language. MATLAB command line. Elementary commands, variable, assignment and expression. Matri	ces, vectors and o	perations.
Writting M-script. I	nput and output. Condition and cycle. Algorithmization of simple problems in MATLAB. Graphical commands. Matrix operations. Syste	ms of linear equati	ons. Scripts
and functions. S	tructure of program. Variables, expressions, assignment, and input / output commands. switch. For cycle. Arrays and files. Pointers. St	ructures. Algorithm	nization of
simple program	s: minimum, mean, norm, numerical integration, bisection method, Newton method, matrix operations. Direct methods for solution of s	systems of linear e	quations.
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
2014009	Mathematics III A	7K	2
2017/000		71/	2
201A021	Constructive Geometry A	Z٨	3
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	
201A049	Numerical Mathematics A	ZK	2
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	I
201A062	Mathematics II A	7K	4
Open and closed	set boundary in EAk Real function of k-variables Partial derivatives and differentiability Gradient and directional derivative. Different	al operators div (d	ivergence)
and curl (rotation)	Superior diven implicitly Local and dobal (- absolute) extremes of a function of more variables. Double integral volume (-triple) integral	Fubini theorem Tra	insformation
of integrals to pola	ar evilodical and sub-rical coordinates. A simple smooth curve and line internal of a scalar and vector function. Circulation and Green	's theorem A note	antial vector
field independen	or 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	r field through a su	Inface The
	Gauss-Ostrorardskii thaorem	i noid through a ot	
0004005		7 71/	4
2021025	Prijsics II.	Z,ZR	4
Faraday's law of ele	ectromagnetic induction, viaxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec	tromagnetic waves	s. Interaction
of radiation with r	natter. Photoelectric effect, wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	periodic system of	r elements.
Spectra, x-rays, ;la	iser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experi-	riments related to t	ine lectures.
2021041	Physics I.	Z,ZK	7
Kinematics and dy	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	perties of bodies.	Oscillations,
waves. Fluid m	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicon	ductors,
insulators. Magner	tic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire	ct measurements,	regression,
	measurements of 11 various experiments related to the lectures.		
2026016	Physics - Seminar	Z	2
	. The subject is mainly meant for high-school students for repetition of high-school physics.		
202A025	Physics II.A	ZK	2
Faraday's law of ele	ectromagnetic induction. Maxwell's equations, electromagnetic waves, Light, wave optics, geometrical optics. Quantum properties of elec	tromagnetic waves	s. Interaction
of radiation with n	natter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	periodic system of	f elements.
Spectra, x-ravs, la	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe	riments related to t	he lectures
2024041	Physics I	71	2
Kinematics and du	I HYDIDD I. namics of a narticle motion. Principle of conservation of energy System of particles, controlof mass. Digid body	LIN Derties of bodios (Uscillations
Waves Eluid m	names of a parallel motion. I morple of conservation of energy. System of parallels, centre of mass, Kigle boay, Continuum, elastic pro-	nductore econicon	ductore
insulators Magnet	tic field. Magnetic materials. I aboratories, accuracy of measurements, evetomatic and random errors, uncertainty of direct and indire	nauciois, semicon	rearession
	ao nora, magnono materiais. Laboratories - acouracy or measurements, systematic driu idriuorii errors, undertainty or direct drid indire	or measurements,	ารฐาชออเบก,
0044004		7 71/	^
2041061		Z,ZK	2
wapped to the Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in o	aiscussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		r
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in o	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 Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in o	discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	·	
2041064	Spanish - Bachelor Exam / FMF	7 7K	2
Mapped to the Con	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in a	discussions
	level benerote at summer a symmetric to where the second operation and up of the horizon of the second operation without greater dimensional second s		
2044005		7 71/	0
2041065	Kussian - Bachelor Exam / FME	Z,ZK	_ ∠
wapped to the Con	aman European Eramowark Level DO. The similate weden terrational and an analysis of the state of	ing to take	dia au !
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part in o	discussions,
	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ies, to take part in o	discussions,
2046068	nmon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. English - Beginners	ies, to take part in o	discussions,

Mappet to Information European Finance of Reference Level A1 Aim. Easi- councilianti, entrology (consequence) Z 2 2060070 English - Lower Intermediate Z 2 2060070 English - Lower Intermediate Z 2 2060070 English - Lower Intermediate Z 2 2060071 English - Lower Intermediate Z 2 2060072 English - Upper Intermediate Z 2 2060073 English - Upper Intermediate Z 2 2060074 English - Upper Intermediate Z 2 2060074 English - Upper Intermediate Z 2 2060074 English - Advance Z 2 2060074 English - Advance Z 2 2060075 English - Advance Z	2046069	English - Beginners	Z	2
all general accentic terminology (preferenced late graph) C 2 2 2.046070 English - Lover intermediate accent in their national accents in the national accents in the national accents in their national accents in the nationaccent in the nathere in the national accents in the national accen	Mapped to the Cor	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic e	expressions
$ \frac{2}{2046070} = \frac{2}{204607} \frac{2}{2} \frac{2}{2$		of general scientific terminology (professional language).		
Are: Udentanding family during a scale and back encourses with an advected and precedence and pr	2046070	English - Lower Intermediate	Z	2
Evidence of the set of the s	Aim: Understandir	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
$\frac{2040071}{2} = \frac{1}{204075} = \frac{1}{2040775} = \frac{1}{2040776} = $	0040074	tamiliar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	7	
and all black the stree and genetic geouthen. Vitting a simple exit point termine factor inside and comprehension of anyote test, increveneers to provide a post-off of termine (a post-off of termine) in the south of termine (a post-off of termine) is a simple exit point of the south of termine (a post-off of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of termine) is a simple exit point of termine) is a simple exit point of termine (a post-off of termine) is a simple exit point of	2046071 Manpad to the Co	English - Lower Intermediate	L Z	2 In at school
2040072 English - Upper Intermediate Z 2 The aim is to ender languag stills stating into consideration quartation terminology. Competention of standard English neuron and consensation at used, at use	or at his/her free	time and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improvement	ent of professional la	anduade
The aim to estand anguage shills laking the consideration ordersion at formano protession at terminogy. Comprehension of advances of estand shifts and on the series and excels booking garmar skowskiges A2 esta. 2046073 2046074 2 2046074 2 2046074 2 2046074 2 2 2046074 2 2 2046075 2 204607 2 2 2 204607 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 204607 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2046072	English - Unper Intermediate	7	2
about topics of everyday the - at at atood, at work, quinting these time, on intermediate level. Broakening grammar knowledge, A2 - B1. Vadped to the Common European Framework of Reference Level B1. The aim is to activer language skills taking into consideration professional Emplah and common professional Researce Level. Altivity of well as well as lectures given in English - Advanced Z 2 2046074 To earn: comprehension of paylar-scenific and active partopation in a discussion. Well as used as lectures given in English - Advanced Z 2 2046076 English - Advanced Z 2 2 2046076 English - Advanced Z 2 2 2046076 Common European Transevort of Reference Level B1 - 12: To sam: comprehension of paylant. Ansatzer at a lecture given in Z Z 2 2046076 Common European Transevort of Reference Level B1 - 12: To sam: comprehension of paylant as lecture given in Z Z 2 2046076 Common European Transevort of Reference Level B1 - 12: To sam: comprehension of paylant as lecture given in Z Z 2 2046077 Common European Transevort of Reference Level B1 - 12: To sam: comprehension of paylant as lecture given in Z Z 2 2046079 Gommon European Tran	The aim is to exten	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard Er	 glish speech and co	onversation
2046073 English - Upper Intermediate Z 2 Apped to the Comme European Finneavot of Reference Level Instagent site (and constraining in a constraint) and unper level (and unper level) (and unp		about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2	- B1.	
Mapped to the Common European Framework of Meterence Level B1. The aim is to extend anyage skills taking into consideration professional English and common professional english is accounter the introduced compression of school, at work, during the time, on intermediate loads. BL Boardening grammar is nowicego. 2046074 English - Advanced Z 2 2046075 English - Advanced Z 2 2 Advanced English - Advanced Z 2 2 2046076 English - Advanced Z 2 2 2 2046077 German - Enginenes Z 2 </td <td>2046073</td> <td>English - Upper Intermediate</td> <td>Z</td> <td>2</td>	2046073	English - Upper Intermediate	Z	2
comprehension of standard English speech and conversation about tips of energy by the -at school, at work, during three time, on intermediate level. Brookening generating and the active participation in a discussion. Witten and oral skills of advanced level. Ability to write a summary, a report, an easy, reading and comprehension of popular-scientific and science archive a summary. a report, an easy, reading and comprehension of popular-scientific and science archive a summary, a report, an easy, reading and comprehension of popular-scientific and science archives from student's field of studies write advanced level. Ability to write a summary, a report, an easy, reading and one advanced level. 2046075 English - Advanced Z 2 2046076 English - Advanced Z 2 2046077 English - Advanced Z 2 2046078 Common European Framework of Reference AB Baao coacibular without difficulties and science and scien	Mapped to the Co	ommon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	sh and common pro	ofessional
Intendegin. Z Z 2046074 English - Advanced Z Z The aim comprehension of spoken English without great afficultie and solvering anticipation in a decussion. Witten and oral ablics in advanced with 31 - 82. Z Z 2046075 English - Advanced English - Advanced Z Z Alley to with a summary. a report. an easy, reading and comprehension of pooler-scientific and solvent field of advanced with 31 - 82. Z Z and active participation in a docussion. Within and oral ablic in advanced with 415 v bits a summary, a report. an expression of pooler-scientific and active participation in advanced within a docussion affinity by what a summary. a report. an expression of parental clentific terminology (professional language) Z 2 2046076 German - Deep finity German - Lower Intermediate Course Z 2 Alley document Expression advances and with a subcentablary of excepting the in a supple way about finite thesis. Improvement of problescing allegaage) Z 2 2046077 German - Lower Intermediate Course Z 2 Alm Understanding douty what is spoken about encryptations of simple tosts. Improvement of problescing allegaage) Z 2 2046079 German - Lower Intermediate Course Z 2 <	terminology. Comp	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi	ate level. Broadenir	ng grammar
20460/74 Image: Advanced Image: 2 2 The aim comprehension of spoken English as well as icclured given in English Advanced grad difficulties and active participation in a discussion. Writen and call abilit on advanced level. Ability to write a summary, a report, an easy report an easy report. Z 2 2046075 English - Advanced Z Z 2046076 Z Z 2 2046077 English - Advanced Z 2 2046077 English - Advanced Z 2 2046077 English - Advanced Z 2 2046078 English - Advanced Z 2 2046077 English - Advanced Z 2 2046078 English - Reprinters Z 2 2046078 English - Reprinters Z 2 2046078 German - Lower Intermediate Columbar Biggishgis Z 2 2046078 German - Lower Intermediate Columbar Biggishgis Z 2 2 2046078 German - Lower Intermediate Columa Z 2 2 2 2 2 2 2 2 2		knowledge.		-
The anti-plant plant and plant and plant and plant and plant pla	2046074	English - Advanced	L Z	2 advonced
Contends to the Common European Framework of Reference Level BS + 127. The sinc comprohension of spoken English has well as leasure gives in English without great difficulties and active participation in a discussion. Written and oral stations and house the Ability to write a summary a report, an essay, reading and comprehension of popular-celeratic and scheme three statics. The set of the static sequence of the static sequence of the static sequence on advanced level. 2046077 Cerman - Beginners Z 2 Basic vocabulary of everyday file in a spoken and written form. Undestanding and use of basic sequences on advanced level. Z 2 2046078 German - Beginners Z 2 2 2046078 German - Beginners Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2 2046079 German - Lower Intermediate Course Z 2 2 2 2046080 German - Upper Intermediate Course Z 2 2 2 2046080 German - Upper Intermediate Course Z 2	level Ability to wr	ite a summary a report an essay reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without o	difficulties
2046075 English - Advanced Z 2 2 Advocation English - Advanced English - Advanced Z 2 2 Advocation English - Advanced Healt - Report on Sexions and comprehension of popular-sexientific and scientific terminology (professional language) Z 2 2 2 2046076 German - Beginners Z 2		Grammar structures on advanced level. B1 - B2.	or studies without t	announco.
Mapped to the Common European Framework of Reference Level BP - 92. The aim: comprehension of spoken English as will activues given in English without general directules and active participation in a discussion. Written and on stability of wrevelysity life in a spoken and written from: Understanding and use of basic expressions of general scientific attributes. 2046077 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 language). Z 2 2046078 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 <td>2046075</td> <td>English - Advanced</td> <td>Z</td> <td>2</td>	2046075	English - Advanced	Z	2
and active participation in a discussion. Written and oral skills in advanced level, Ability to write a summary, a report, an essay, reading and comprehension of spoular-scientific and scientific and advanced level. 2046076 Section 2040	Mapped to the Co	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En	glish without great	difficulties
scientific arctics or toxis from students ' field of studies without difficulties. Gramma structures on advanced level. 2046076 German - Beginners Z 2 Basic vocabulary of veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language). Z 2 Mapped to the level Common European Framework of Relemence A1 Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). Z 2 20460778 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046080 German - Loper Intermediate Course Z 2 2 2046080 German - Upper Intermediate Course Z 2 </td <td>and active particip</td> <td>pation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehen</td> <td>nsion of popular-sci</td> <td>entific and</td>	and active particip	pation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehen	nsion of popular-sci	entific and
2046076 C 2 2 Basic vocubalny of everyday life in a spoke and written tom. Understanding and use of basic expressions of general scientific terminology (professional language). 2 2046077 Cerrman - Beginners Z 2 Mapped to the level Common European Framework of Reference A1 Basic vocubativy of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). 2 2 2046078 Cerrman - Lower Intermediate Course Z 2 2 Mapped to the level Common European Framework of Reference A2 Aim: Understanding clearly schelen language. Z 2 2 2046079 German - Lower Intermediate Course Z 2 2 2046080 German - Upper Intermediate Course Z 2 2 2046080 German - Upper Intermediate Course Z 2 2 2046081 German - Upper Intermediate Course Z 2 2 2046082 German - Upper Intermediate Course Z 2 2 2046082 German - Opper Intermediate Course Z 2 2 2046083 <td></td> <td>scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.</td> <td></td> <td></td>		scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
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Image: and table set of Common European Framework of Reference 24 Am: Understanding clearly spoken language about everyday situations which a student meets either at school or in hisher free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvement of professional language. 2046000 German - Uower Intermediate Course Z 2 2046000 German - Upper Intermediate Course Z 2 2046001 German - Upper Intermediate Course Z 2 2046002 German - Upper Intermediate Course Z 2 2046081 German - Upper Intermediate Course Z 2 2046082 Common European Framework of Reference X2 - B1 Understanding standard speech about familiar topics. That a student scores across at work, at school, during free time, and tabling about these topics. Ability to describe experiences and event, scapian one's opinions and plans. Retaining and understanding general and technical texts. 2046082 German - Advanced Course Z 2 2 2046083 German - Advanced Course Z 2 2 2046084 German - Advanced Course Z 2 2 2046083 German - Advanced Course Z 2 2 2046084 Gererman - Advanced Course Z <t< td=""><td>Aim: Understandir</td><td>Gernan - Lower internetiate Course</td><td> ∠ Writing in a simple</td><td>∠ wav about</td></t<>	Aim: Understandir	Gernan - Lower internetiate Course	∠ Writing in a simple	∠ wav about
2046079 Carman - Lower Intermediate Course Z 2 Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student meets at exhol or in hisher testime and speaking about them. Writing in a simple way about familiar topics. Reading and comprehesion of simple texts. Improvement of professional language. 2046080 German - 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. Ability to describe experiences and events, explain one's ophions and plans. Reading and understanding general and technical texts. 2046081 German - Advanced Course Z 2 Comprehension of spoken language as well as lectures in German - Advanced Course Z 2 2 2046083 German - Advanced Course Z 2 2 Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing ophinosin and popular scientific and technical texts. 2 2 2046083 German - Advanced Course Z 2 2 2046083 German - Advanced Course Z 2 2 Mapped to the level of Common European		familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		nay about
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2046082 German - Advanced Course Z 2 Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. 2046083 German - Advanced Course Z 2 Mapped to the level of Common European Framework of Reference: B1-B2 The aim: comprehension of spoken German as well as lectures given in German without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 2046084 French - Beginners' Z 2 Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them est at school or in his/her free time and speaking about themest at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. 2046086 French - Lower Intermediate Course Z 2 2 Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and compre	during free time a	veror common European Framework or Relefence.A2 - BT onderstanding standard speech about familiar topics, that a students com and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tech	al school,
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2046089 French - Upper Intermediate Z 2 Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes across at work, at school, during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. 2046090 French - Advanced Z 2 Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.	Understanding st	anuaru specuri audur iarinilar marters marta suduent meets at work, at school, during free time, and taiking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts	to describe experie	ances and
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2046090 French - Advanced Z 2 Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. 2	during free time, a	nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tech	nnical texts.
Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.	2046090	French - Advanced	Z	2
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles.	Comprehension	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	n in discussions. Ex	pressing
	opinions.	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical article	es.

Mapped to the	French - Advanced		2
	level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	pics familiar to the	student.
Communication wi	th native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	understanding texts	concerning
	currant issues and popular scientific and technical articles.	,	
2046096	Spanish - Beginners	Z	2
Aim:Understandir	ing clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners	Z	2
Mapped to the C	common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at sc	hool or in
his/her free tin	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	t of professional lan	guage.
2046098	Spanish - Lower Intermediate	Z	2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way at	out familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z	2
Mapped to the leve	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	nt meets at school o	or in his/her
free time a	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	professional langua	ge.
2046117	Czech -Advanced	Z	2
Comprehension of	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis	cussions. Expressir	ng opinions.
Writt	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.	
2046118	Czech -Advanced	Z	2
Mapped to the leve	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	ch without great diff	iculties and
active participat	ion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehense	sion of popular-scie	ntific and
	scientific articles or texts from student s field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
Basic voc	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	professional langua	ge)
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Cor	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandin	g and use of basic e	expressions
	of general scientific terminology (professional language).	,	
2046125	Czech Lower Intermediate	Z	2
Aim: Understandir	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	,	
2046126	Czech Lower Intermediate	Z	2
Aim: Understandir	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Understanding st	tandard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
		· · · · · · · · · · · · · · · · · · ·	
2046128	Czech - Upper Intermediate	Z	2
2046128 Mapped to the Cor	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	Z zech and common p	2 professional
2046128 Mapped to the Con terminology. Cor	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	Z zech and common p nediate level. Broad	2 professional ening the
2046128 Mapped to the Con terminology. Cor	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz mprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language.	Z zech and common p nediate level. Broad	2 professional ening the
2046128 Mapped to the Conterminology. Conterminology.	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners	Z zech and common p nediate level. Broad	2 professional ening the 2
2046128 Mapped to the Con terminology. Cor 2046135 Basic voc	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	Z cech and common p nediate level. Broad Z orofessional languag	2 professional ening the 2 ge)
2046128 Mapped to the Con terminology. Cor 2046135 Basic voc 2046136	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p Russian - Beginners	Z tech and common p nediate level. Broad Z zrofessional languag	2 professional ening the 2 ge) 2
2046128 Mapped to the Conterminology. Con 2046135 Basic voc: 2046136 Mapped to the lev	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (provide the form). Russian - Beginners rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form.	Z rech and common p nediate level. Broad Z professional languag Z and use of basic e	2 professional ening the 2 ge) 2 xpressions
2046128 Mapped to the Con terminology. Cor 2046135 Basic voc: 2046136 Mapped to the lev	Czech - Upper Intermediate mmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language. Russian - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding rel of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	Z rech and common p nediate level. Broad Z professional languag Z and use of basic e	2 professional ening the 2 ge) 2 xpressions
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2046162	Presentations in German	Z	2
	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.	1	1
2046163	Presentations in French language	Z	2
	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		-
2046164	Presentations in Russian	Z	2
2046165	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	7	2
2040105	Presentations in Spanish Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.		2
2046166	Presentations in Czech	Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm	ents.	-
2131002	Engineering Design II	Z,ZK	4
Principles of ISO G	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	texture, geometric	al tolerance,
dimensional loo	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	eir knowledge from	lectures.
2131026	Machine Elements and Mechanisms II	ZK	3
Preliminary design,	design calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanism,	pipelines and their	accessories
0404540	and fittings.	7 71/	
2131512	Machine Elements and Mechanisms I.	Z,ZK	6
Joints and joining e	tements (screwed, clamped, splined, weided, rivered, soldered and adnesive joints, joints with use of reachers, pins, tenons, collers, ki	eys). Mechanical lis	clamped
pressed, splined an	id, ged drives). Commars are devoted to practical marvadal solution of simple design projects raises with motion solews, produced in available and riveted ioints. Sketching of machine elements and their simple assert	mbly units is also in	dispensable
[seminar work.		
2133013	Engineering Design III.	Z	2
	Design of assembly unit (draft drawing, detail drawing, assembly drawing, technical report)	1	I
2133014	Engineering Design IV.	Z	2
2133025	Design	Z	4
Design	h, design calculations and their aplications in case of geared transmissions, axles and shafts, sliding and rolling bearings, shaft coupl	lings and clutches.	1
2141504	Electric Circuits and Electronics	Z,ZK	4
Introduction into th	heory of electrical circuits, analysis special types of electrical circuits as DC and AC. Transient states in circuits with accumulators of	energy. El. Power a	and Energy.
Introduction into	electronics. Principle and typical parameters of basic semiconductor components. Application in electronic circuits (rectifier, stabilize	er, power control, op	perational
	amplifier). Analogue and digital circuits. Principle of analogue and digital signal processing. Logical circuits, converters, micropro	ocessor.	
2141505	Electrical machines and drives	Z,ZK	4
AC el. curcuits. Ele	ectrical power and energy. Calculation, measurement, power factor. Magnetic circuit, materials, hysteresis loop. Electromagnet. Trans	former, principle, c	onstruction,
3-phase transion	mer, operating conditions, rated (scrieduled) values. Induction machine, principle, construction, operating conditions. Starting, speed	ristic Low-voltage	instruments
Control. Cynonionol	Low-voltage distribution system.	Totio. Lott Voltago	
2144062	lechnical Indonesian - Course II.	Z.7K	3
2144062	Iechnical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK	3
2144062	Iechnical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange	Z,ZK	3
2144062	Iechnical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK	3
2144062 2146060 2146061	Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I.	Z,ZК Z Z	3 2 2
2144062 2146060 2146061	Inchnical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK Z Z	3 2 2
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2144062 2146060 2146061 2151002 Physical fundame of nuclear 2151090 2151117 2151118 2151158 2151165 Classificiation and and operation in cor 2151554 2151559 2151702 2152028 2152091 2153005 2153006 2153091 2153707 2153985 215165	Iechnical Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Nuclear Power Principles Intals of nuclear energy. Development and heat removal from core. Basic materials for nuclear reactors. Basic types of nuclear reactor reactors. Fuel cycle. Reactor radiation, detection and quantification, determination of radiation doses. Problems of nuclear safety an Industry power and heating plant Design of Power Facilities Distributed Energy Principles of Refrigerating Technology and Heat Pumps Hydraulic and Pneumatic Machines a principles of operation of hydraulic machines. Criterions of hydrodynamical similarity. Hydraulic systems. Different types of pumps, n various conditions. Theory of compression processes. Constructions, calculation, capacity control of compressors, operation with v mpressors. Accessories of a compression stations and plants. Economical and ecological problems of a compressed air production a Thermal Turbines Heat Exchangers and Boilers Renewable Energy Sources Energy Audit and Legislation Deparmental Project Fundamentals of Energy Conversions Technology of Air Protection in Power Engineering Presentation of Project I. Bachelor Thesis	Z,ZK Z Z,ZK rs. Review of adva d technical provisio Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,Z	3 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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2144062 2146060 2146061 2151002 Physical fundame of nuclear 2151090 2151117 2151118 2151158 2151165 Classificiation and and operation in cor 2151554 2151559 2151702 2152028 2152091 2153005 2153006 2153091 2153707 2153985 2181026 Fundamentals of time distributions in	Indenesian Language for Student Exchange Program to Indonesia Indonesian Language for Student Exchange Basic of Indonesian Language for Student Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Nuclear Power Principles ntals of nuclear energy. Development and heat removal from core. Basic materials for nuclear reactors. Basic types of nuclear safety and Industry power and heating plant Design of Power Facilities Distributed Energy Principles of Refrigerating Technology and Heat Pumps Hydraulic and Pneumatic Machines 1 principles of operation of hydraulic machines. Criterions of hydrodynamical similarity. Hydraulic systems. Differend types of pumps, nvarious conditions. Theory of compression processes. Constructions, calculation, capacity control of compressors, operation with v mpressors. Accessories of a compressor stations and plant. Economical and ecological problems of a compressed air production a Thermal Turbines Renewable Energy Sources Energy Audit and Legislation Departmental Project Fundamentals of Energy Conversions Technology of Air Protection in Power Engineering Project I. Bachelor Thesis	Z,ZK Z Z,ZK rs. Review of adva d technical provisio Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,Z	3 2 2 5 nced types ns. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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2181507	Diffusion separation equipment	Z,ZK	5
Classis from Equip	pment for diffusion separation processes are giving a basic knowledge of processes and equipments where gas or liquid mixture is be	en separated due f	to principals
of physical-chem	ical equilibriums or on the basis of mass transfer mechanisms. They are used for concentrating of products from dilute solutions or in	turn for purification	n of diluted
2101500	gasses of liquid solutions.	774	F
Z 10 1000 Fundamentals of th	Heat Italister equipments hermodynamics and conductive and convective beat transfer. Enthaloy balancing, Technical thermodynamics and basic thermodynamic	Cycles Functional	C J
	mechanical design, thermal and hydraulic design of a heat exchangers, evaporators and drivers.	cycles. I unclional	description,
2182019	Chemistry	KZ	3
General chemist	ry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties	s of matter, thermo	dynamics,
phase equilibriur	m, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioche	mistry. Laboratory	practice is
	oriented upon the material properties measurement.		
2182091	Project	KZ	2
	Absolvent se seznámí se základy oboru Procesní technika.		
2183091	Project Presentation	Z	4
	Preparation and presentation of a given project theme.		_
2183707	Project I.		5
24.020.05	Project, dimensioning and designing solution of basic elements for process technology.		_
2183985 Dechalar theorie in	Bacnelor I nesis		5
Dachelor thesis is	final individual work. This work checks ability of logical independent technical uninking and treatment with technical materials. There i from previous study periods	s applied acquired	KIIOwieuge
2311101	Mechanics I	7 7K	1
Mechanics I deals	with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems.	stems with and with	hout friction.
	There are introduced the methods of description of position and motion of particles and rigid bodies.		
2311102	Mechanics II.	Z.ZK	4
Kinematics of poin	t and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, s	pherical motion, sc	rew motion,
general spatial mo	tion. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vec	tor method. Graphi	cal methods
	in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mecha	nisms.	
2321039	Materials Science II.	Z,ZK	4
Fundamentals of r	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal	nermo-mechanical	processing,
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mater	als.	
2322029	Materials Science I.	KZ	3
History and pres	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrystalliz	zation and
fracture of mat	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, in	on-carbon phase c	diagram.
2362091	Project	KZ	2
2363091	Project Presentation	Z	4
2371047	Automatic Control	Z,ZK	5
Automatic contro	llers are important part of many industrial processes. The goal of this course is to introduce students into basic knowledge of automat	ic control theory ar	nd practice
via programmab	ons, open versus closed loop control, design of controllers and frequency based analysis of control systems. The course also concentration where practical skills and control systems in the course also concentration where practical skills and control systems.	students begin to	and control
	MATI AB software as a common platform of control engineers	Students begin to	
2372041	Computer Support for Study	K7	3
The course introdu	ices students into creating technical and professional documents on computers or Web and into realizing technical computations with t	he use of compute	rs. Students
gain practic	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techn	ical-based WWW r	bage.
2372083	Measurement in Engineering	KZ	3
Overview of ser	isor principles for measurement of non-electrical variables (temperature, position, force, speed, acceleration, torque). Calibration and	verification of mea	surement
	instruments.		
2372091	Project	KZ	2
	An individual project from the branch of specialisation, which student will study on his/her magister level		
2373091	Project presentation	Z	4
Diploma thesis or	bachelor work presentation. Student should study the presentation software possibilities and proposition of the department. Student sl	nould prepare the p	oresentation
of actual version	n of his diploma or bachelor work and present it in the face of the other student. The presentation will continue with discussion. Conse	quently, the work s	should be
0004054	presented as a por file on a temporal web page.	7 71	4
2381054	Management and Economics of the Enterprise	C,ZK	4
the basic relation	ships between economic quantities costs - revenues, expenses - incomes and other hasic economic terms. The goal is for the audien	ce to be able to co	mmunicate
with economists i	in organizations, every product or service is valued at a selling price and therefore it is necessary to understand the simple costing of	products and servi	ices. Everv
technician will enc	ounter reports and should understand the basic structure of financial statements. As a future manager, he will compile and approve th	e operating budge	t. In the field
of management,	they will learn basic managerial functions and their content. Furthermore, they will learn how to use network analysis in project mana	gement. For decisi	on-making
	purposes, they will learn the applications of multi-criteria decision-making. The basics of marketing and strategic management will be	introduced.	
2383001	Fundamentals of Law	Z	2
Basic orientation i	in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	le a view into the C	Zech Legal
Order, particular s			men en lun nuu
our legel is still if	sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n	ecessary for stude	the entry
our legal institutio	sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is no ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.	At the same time to ships and to make	the course
our legal institution leads students to k	sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering	At the same time the same same same same same same same sam	the course them ready
our legal institution leads students to k 2383009	cources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. show some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering Communication and Dealing with People	At the same time the same same same same same same same sam	the course them ready
our legal institution leads students to k 2383009 Human communi	cources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is nons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. Anow some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering Communication and Dealing with People cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (ecessary for stude At the same time f Iships and to make	the course them ready 2 ications) to
our legal institution leads students to k 2383009 Human communi	cources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is nons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. Know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering Communication and Dealing with People cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.	ecessary for stude At the same time to Iships and to make Z with specific modifi	the course them ready 2 ications) to
our legal institution leads students to H 2383009 Human communi K331068	sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is nons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. show some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering Communication and Dealing with People cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently. Technology I	At the same time iships and to make	the course them ready 2 ications) to
our legal institution leads students to leads 2383009 Human communi K331068 Foundry properties	Sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is nons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. Snow some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation to prepare professional presentations and to understand basic structures between law and engineering Communication and Dealing with People cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently. Technology I s of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form	At the same time iships and to make Z with specific modifi Z,ZK hing processes. Ser	the course them ready 2 ications) to 5 mi-products,

K333038	Fundamentals of Technology I.	Z	3	
Production proces	ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr	ical metals. Produ	ction of pig	
iron and steel. Cas	sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech	nology. Hot and co	old forging.	
Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame				
welding and arc welding with coated electrodes. Thermal cutting.				
K341014	Technology II.	Z,ZK	5	

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-03, time 22:08.