### Study plan

### Name of study plan: 08 40 45 52 DSTR KPP 2012 K základ

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Bachelor of Mechanical Engineering

Type of study: Bachelor combined

Required credits: 96

Elective courses credits: 142 Sum of credits in the plan: 238

Note on the plan: SP12DSTR-K MUSTR # SP12DSTR-TZP-K # SP12BSTR-TZP-K # první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 49

The role of the block: P

Code of the group: 12BS\*7P-KPP

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

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

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

Credits in the group: 22 Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2351110	Modeling and simulation I.  Petr Mašek, Miroslav Ondrá ek, Tomáš Lazák, Jan Smolík, Tomáš Krannich, Josef Kekula, Petr Kolá, Vojt ch Matyska <b>Jan Smolík</b> Jan Smolík (Gar.)	Z,ZK	5	2P+2C	*	Р
2211581	Transmissions Jií Pakosta <b>Jií Pakosta</b> Jií Pakosta (Gar.)	Z,ZK	5	2P+2C	*	Р
2311073	Simulation of Mechanical Systems  Zbyn k Šika	Z,ZK	6	2P+3C	*	Р

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

<u> </u>								
2351110	Modeling and simulation I.	Z,ZK	5					
The subject is focused	The subject is focused on explanation of the design of machine tool axis by individual parts and components.							
2211581	Transmissions	Z,ZK	5					
The course provides a	general summary of transmissions for various applications which the student in the specialization designer-calculator meets.	The gearing basic	s of production					
and transport machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission devices of motor vehicles.								
2311073	Simulation of Mechanical Systems	Z,ZK	6					

Code of the group: 12BS\*7Q-KPP-OP

Name of the group: 13 2012 BSTR 7.sem 1povvol KPP-OP

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:

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
2112092	Department Project	KZ	4	0P+6C	*	Р
2122092	Department Project	KZ	4	0P+6C	*	Р
2352092	Specialization Project Vladimír Andrlík Vladimír Andrlík (Gar.)	KZ	4	6C	*	Р

2212092	Project Ji í Pakosta, Michal Jasný, Jakub Seidl, Jaroslav Kan ra, Rastislav Toman, Petr Hatschbach, Antonín Mikulec, Old ich Vítek, Ji í Vávra, Petr Hatschbach Old ich Vítek (Gar.)	KZ	4	0P+6C	Z	Р
2312092	Department project Michael Valášek	KZ	4	0P+6C	*	Р
2132092	Project František Longt	KZ	4	0P+6C	*	Р

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

2112092	Department Project	KZ	4
2122092	Department Project	KZ	4
The content of the subj	ect is given by the topic of bachelor's work after consultion with supervisor of bachelor work or the tutor of the department.	·	'
2352092	Specialization Project	KZ	4

The course is focused on elaboration of individual work, which student solves in close cooperation with the head of the assigned topic. The student will get acquainted with the problems of manufacturing machines and the equipment, respectively its parts according to the orientation of their work, and during regular weekly consultations with the supervisor proceed in professional solution of the problem. At the end of the semester students present their work on small oral examination in which they present the work performed, the coherence and meaning

2212092	Project	KZ	4			
Basic practical skills o	Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry requirements.					
2312092	Department project	KZ	4			
Individual asignment						
2132092	Project	KZ	4			
Elaboration of semest	er global project of mechanical drive of conveyor composed of electric motor, elastic shaft coupling (respectively V-belt drive),	gearbox provided	with two pairs			

Elaboration of semester global project of mechanical drive of conveyor composed of electric motor, elastic shaft coupling (respectively V-belt drive), gearbox provided with two pairs of mating gears and compensating double-row toothed shaft coupling (respectively roller chain drive). Second, alternative arrangement of projected mechanical drive is provided instead of previous gearbox and additional mechanical drives by means of only one single-stage warm gearbox. Elaboration of 4 additional reports analysing production and economic problems of assigned machine element (gearbox shaft or gear). Besides project of mechanical drive must be elaborated design project of crank mechanism and its flywheel for assigned single-cylinder piston engine.

Code of the group: 12BS\*8P-KPP

Name of the group: 15 2012 BSTR 8.sem povinné KPP

Requirement credits in the group: In this group you have to gain 23 credits

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

Credits in the group: 23 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
2111052	<b>Experimental Methods and Certification Engines</b>	Z,ZK	7	3P+0C+4L	*	Р
2381068	Cost Accounting	Z,ZK	5	2P+2C	*	Р
2131120	Design of Steel Structures	Z,ZK	6	2P+2C	*	Р
2351117	Vladimír Andrlík	Z,ZK	5	2P+2L	*	Р

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

2111052	Experimental Methods and Certification Engines	Z,ZK	7
2381068	Cost Accounting	Z,ZK	5
The subject presents ar	introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of bud	geting (expected	cost), so the

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

2131120	Design of Steel Structures	Z,ZK	6
2351117		Z,ZK	5
Importance of fluid med	hanisms and drives, principle, design and use. Divided on two parts - Hydraulics and Pneumatics.	•	

Code of the group: 12DSK1P-KMEN

Name of the group: 00 2012 D kmenové 1. semestr STR kombinované

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

Credits in the group: 0

Note on the group: 12B\*\*1P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2011021	Constructive Geometry	Z,ZK	6	3P+2C	*	Р
2383008	Managerial Psychology	Z	2	1P+1C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2372041	Computer Support for Study Vladimír Hlavá	KZ	3	1P+1C	*	Р
2132001	Engineering Design I.	KZ	2	1P+2C	1	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

2182019	Chemistry	KZ	3
General chemistry	r from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and proper	ties of matter, ther	modynamics,
phase equilibrium,	, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biod	hemistry. Laborato	ry practice is
oriented upon the r	material properties measurement.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focu	used on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		'
2383008	Managerial Psychology	Z	2
2011056	Mathematics I	Z,ZK	8
In the course, grea	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and conne	ections between co	ncepts. Students
will also get to know	w the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic are	as eigennumbers	and eigenvectors
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of a matrix, Taylor	polynomial, integral as a limit function, integration of some special functions.	oue. eigennumbere	and organization
of a matrix, Taylor p		KZ	3
2372041	polynomial, integral as a limit function, integration of some special functions.	KZ	3
2372041 The course introdu	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study	KZ with the use of com	3 nputers. Students
2372041 The course introdu	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study uces students into creating technical and professional documents on computers or Web and into realizing technical computations	KZ with the use of com	3 nputers. Students
2372041 The course introdu gain practical skills 2132001	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study  uces students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical computations.	KZ with the use of com	3 nputers. Students ge.
2372041 The course introdu gain practical skills 2132001	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study  uces students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.	KZ with the use of com	3 nputers. Students ge.
2372041 The course introdu gain practical skills 2132001 Basic of technical r 2131005	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study  uces students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.  representation, dimensioning and tolerancing	KZ with the use of com al-based WWW page KZ	3 apputers. Students ge.
2372041 The course introdu gain practical skills 2132001 Basic of technical r 2131005 Developement of h	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study  uces students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.  representation, dimensioning and tolerancing  History of Technology	KZ with the use of com al-based WWW page KZ ZK sis given upon new	3 apputers. Students ge. 2
2372041 The course introdu gain practical skills 2132001 Basic of technical r 2131005 Developement of h	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study uses students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.  representation, dimensioning and tolerancing  History of Technology human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis	KZ with the use of com al-based WWW page KZ ZK sis given upon new	3 apputers. Students ge. 2
2372041 The course introdu gain practical skills 2132001 Basic of technical r 2131005 Developement of h technology with spi	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study  Loces students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration in the spreadsheet calculator, and by creating technical integration integration in the spreadsheet calculator, and by creating technical integration in	KZ with the use of com al-based WWW page KZ  ZK s is given upon new an arrower sense of Z	3 apputers. Students ge. 2 3 branches of f the word. 3
2372041 The course introdu gain practical skills 2132001 Basic of technical r 2131005 Developement of h technology with spi K333038 Production process	polynomial, integral as a limit function, integration of some special functions.  Computer Support for Study uses students into creating technical and professional documents on computers or Web and into realizing technical computations is by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Engineering Design I.  representation, dimensioning and tolerancing  History of Technology human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis pecial attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the Fundamentals of Technology I.	KZ with the use of com al-based WWW page KZ  ZK s is given upon new enarrower sense of Z echnical metals. Pr	3 apputers. Students ge.  2  3 branches of f the word.  3 oduction of pig

Code of the group: 12DSK2P-KMEN

welding and arc welding with coated electrodes. Thermal cutting.

Name of the group: 00 2012 D kmenové 2. semestr STR kombinované

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

Credits in the group: 0

Note on the group:

12B\*\*2P-KMEN#

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I.  Jana Sobotová	KZ	3	2P+1L	2	Р
2012037	Computer Graphics	KZ	3	1P+1C	*	Р
2131002	Engineering Design II	Z,ZK	4	2P+3C	2	Р

#### Characteristics of the courses of this group of Study Plan: Code=12DSK2P-KMEN Name=00 2012 D kmenové 2. semestr STR kombinované 2021041 Physics I. Z.ZK 7

2021071	1 11/3/03 1.	۷,۷۱۸	'	
Kinematics and dynamic	is of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	lies. Oscillat	tions,
waves. Fluid mechanics.	Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicor	nductors,	
insulators. Magnetic field	I. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	irect measureme	nts, regress	sion,
measurements of 11 var	ious experiments related to the lectures			

2011062 Matematika II. Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence)

and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, Fubini theorem. Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem.

2322029 Materials Science I.

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

2012037	Computer Graphics	KZ	3
2131002	Engineering Design II	Z,ZK	4
Principles of ISO GPS	Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surfa-	co texture deam	atrical talarance

dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures.

Code of the group: 12DSK3P-KMEN

Name of the group: 00 2012 D kmenové 3. semestr STR kombinované

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

Credits in the group: 0 Note on the group.

12B\*\*3P-KMFN #

note on the group	). 12D JF-1	IXIVILIN #				
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р
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	*	Р
2321039	Materials Science II. Ji í Cejp, Jakub Horník, Jana Sobotová, Ladislav Cvr ek, Elena ižmárová, Eliška Gal íková, Pavlína Hájková, Jakub Horváth, Zde ka Jeníková, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
2133013	Engineering Design III. Jan Hoidekr, Jan Kanaval, František Lopot, David Skalický, Roman Uhlí <b>Jan</b> <b>Kanaval</b> Jan Kanaval (Gar.)	Z	2	0P+2C	Z	Р
2121023	Thermodynamics	Z,ZK	5	3P+2C	*	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.)	KZ	4	1P+2C	*	Р

Characteristics of	the courses of this group of Study Plan: Code=12DSK3P-KMEN Name=00 2012 D kmenové 3. s	emestr STR	kombinované
2021025	Physics II.	Z,ZK	4
Faraday's law of electro	magnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of	electromagnetic v	vaves. Interaction
of radiation with matter	. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a	nd periodic syste	m of elements.
Spectra, x-rays, ;laser.	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e.	xperiments relate	d to the lectures.
2011009	Mathematics III	Z,ZK	5
An introductory course	in ordinary differential equation and infinite series.	•	
2311101	Mechanics I.	Z,ZK	4
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	r systems with an	d without friction.
There are introduced t	ne methods of description of position and motion of particles and rigid bodies.		
2321039	Materials Science II.	Z,ZK	4
Fundamentals of meta	lurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mecha	nical processing,
technical iron-carbon a	lloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.		
2133013	Engineering Design III.	Z	2
Design of assembly ur	it (draft drawing, detail drawing, assembly drawing, technical report)	'	
2121023	Thermodynamics	Z,ZK	5
The course deal with a	basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers.	Basic concepts a	nd principles are
introduced, and they ar	e applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied w	rith an emphasis o	n psychometrics.
Heat transfer covers fu	ndamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application.Exercises an	d labs are devote	d to practical
problems and experim	ental technique.		
2012035	Algorithmization and Programming Fundamentals	KZ	4

Programming in MATLAB and its programming language. MATLAB command line. Elementary commands, variable, assignment and expression. Matrices, vectors and operations. Writting M-script. Input and output. Condition and cycle. Algorithmization of simple problems in MATLAB. Graphical commands. Matrix operations. Systems of linear equations. Scripts and functions. Structure of program. Variables, expressions, assignment, and input / output commands. switch. For cycle. Arrays and files. Pointers. Structures. Algorithmization of simple programs: minimum, mean, norm, numerical integration, bisection method, Newton method, matrix operations. Direct methods for solution of systems of linear equations.

Code of the group: 12DSK4P-KMEN

Name of the group: 00 2012 D kmenové 4. semestr STR kombinované

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

Credits in the group: 0

Note on the group: 12B\*K4P-KMEN#

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
2311102	Tutors, authors and guarantors (gar.)  Mechanics II.  Václav Bauma	Z,ZK	4	2P+2C	*	Р
2121500	Fluid Dynamics	Z,ZK	5	3P+2C	*	Р
2011049	Numerical Mathematics Petr Svá ek	Z,ZK	4	2P+2C	4	Р
2133014	Engineering Design IV. František Lopot	Z	2	0P+2C	L	Р
K331068	Technology I	Z,ZK	5	16B	*	Р

#### Characteristics of the courses of this group of Study Plan: Code=12DSK4P-KMEN Name=00 2012 D kmenové 4. semestr STR kombinované

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2311102	Mechanics II.	Z,ZK	4			
Kinematics of point and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, spherical motion, screw motion,						
general spatial motion	Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and	vector method. Gra	aphical methods			
in kinematics. Basic th	eory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms.					
2121500	Fluid Dynamics	Z,ZK	5			
The basic course in flu	id dynamics deals with fundamental laws of hydrostatics and hydrodynamics and their application on the basic problems, as	D flow in ducts, e	stimation of			
pressure losses, simp	ified solution of unsteady flow. Basic information on more complicated problems (laminar and turbulent flow, boundary layer th	eory, flow seppara	atrion) are			
introduced as well.						
2011049	Numerical Mathematics	Z,ZK	4			
Numerical solution of s	ystems of linear equations, iterative methods. Numerical solution of nonlinear algebraic equations. Least squares method. Nume	rical solution of ord	linary differential			
equations, initial and b	oundary value problems. Numerical solution of basic linear partial differential equations by finite difference method.					
2133014	Engineering Design IV.	Z	2			
K331068	Technology I	Z,ZK	5			
Foundry properties of	netals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of	forming processes	. Semi-products,			
heating-up. Cutting. C	old and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.					

Code of the group: 12DSK5P-KMEN

Name of the group: 00 2012 D kmenové 5. semestr STR kombinované

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

Credits in the group: 0

Note on the group:

12B\*K5P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131512	Machine Elements and Mechanisms I. František Lopot	Z,ZK	6	3P+2C	*	Р
2141504	Electric Circuits and Electronics Stanislava Papežová, Jan Chyský, Jaroslav Novák, Lukáš Novák <b>Zuzana</b> Sedlecká Jan Chyský (Gar.)	Z,ZK	4	2P+08C+1.4L	*	Р
2311108	Mechanics III.  Michael Valášek	Z,ZK	6	2P+2C	*	Р
2372083	Measurement in Engineering Martin Novák, Vladimír Hlavá Martin Novák Martin Novák (Gar.)	KZ	3	1P+0C+2L	*	Р
K341014	Technology II.	Z,ZK	5	8KP+8KC	*	Р
2153005	Fundamentals of Energy Conversions	Z	1	1P+1C	*	Р
2383001	Fundamentals of Law	Z	2	1P+1C	*	Р

#### Characteristics of the courses of this group of Study Plan: Code=12DSK5P-KMEN Name=00 2012 D kmenové 5. semestr STR kombinované

2131512 Machine Elements and Mechanisms I.

Joints and joining elements (screwed, clamped, splined, welded, riveted, soldered and adhesive joints; joints with use of feathers, pins, tenons, cotters, keys). Mechanical transmissions (belt, chain, friction, gear drives). Seminars are devoted to practical individual solution of simple design projects - tasks with motion screws, preloaded connecting bolts, clamped, pressed, splined and key joints between shafts and hubs and tasks with welded and riveted joints. Sketching of machine elements and their simple assembly units is also indispensable seminar work.

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. Power and Energy.							
Introduction into electro	nics. Principle and typical parameters of basic semiconductor components. Application in electronic circuits (rectifier, stabilize	er, power control, o	perational				
amplifier). Analogue an	d digital circuits. Principle of analogue and digital signal processing. Logical circuits, converters, microprocessor.						
2311108	Mechanics III.	Z,ZK	6				
2372083	Measurement in Engineering	KZ	3				
Overview of sensor prir	ciples for measurement of non-electrical variables (temperature, position, force, speed, acceleration, torque). Calibration and	verification of me	asurement				
instruments.							
K341014	Technology II.	Z,ZK	5				
2153005	Fundamentals of Energy Conversions	Z	1				
2383001	Fundamentals of Law	Z	2				
Basic orientation in lega	al system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to pro	ovide a view into th	ie Czech Legal				
	es of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It	•					
our legal institutions, the	at will be regularly in touch with, especially during their professional career and to learn how to work with the collection of law	vs. At the same tim	e 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

Code of the group: 12DSK6P-KMEN

Name of the group: 00 2012 D kmenové 6. semestr STR kombinované

to prepare professional presentations and to understand basic structures between law and engineering

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

Credits in the group: 0

Note on the group:

12B\*\*6P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2371047	Automatic Control	Z,ZK	5	3P+15C+05L	*	Р
2131026	Machine Elements and Mechanisms II František Lopot	ZK	3	3P+0C	*	Р
2141505	Electrical machines and drives  Jaroslav Novák	Z,ZK	4	2P+06C+1.4L	*	Р
2133025	Design František Lopot	Z	4	0P+4C	*	Р
2381054	Management and Economics of the Enterprise	Z,ZK	4	2P+2C	*	Р
2181026	Momentum, Mass and Heat Transfer	Z,ZK	5	3P+1C	*	Р

#### Characteristics of the courses of this group of Study Plan: Code=12DSK6P-KMEN Name=00 2012 D kmenové 6. semestr STR kombinované

2371047 **Automatic Control** 7.7K 5 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, open versus closed loop control, design of controllers and frequency based analysis of control systems. The course also concentrates on logic control and control via programmable logic controllers. Some seminaries are arranged in laboratories where practical skills and control engineering methods are trained. Students begin to work with MATLAB software as a common platform of control engineers.

2131026 Machine Elements and Mechanisms II

Preliminary design, design calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanism, pipelines and their accessories and fittings.

2141505 Electrical machines and drives

Z,ZK AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Magnetic circuit, materials, hysteresis loop. Electromagnet. Transformer, principle, construction, 3-phase transformer, operating conditions, rated (scheduled) values. Induction machine, principle, construction, operating conditions. Starting, speed-torque characteristic, speed control. Synchronous machines. DC-machines, principle, parameters, operating conditions, construction, starting, speed control, speed-torque characteristic. Low-voltage instruments.

Low-voltage distribution system. 2133025 Ζ 4 Design

Design, design calculations and their aplications in case of geared transmissions, axles and shafts, sliding and rolling bearings, shaft couplings and clutches. 2381054 Management and Economics of the Enterprise

The course is designed to give students the understanding of economic principles. The economical part of the course is consisted from: explanation of relationship between costs and revenues, expenses and income, concept of investment and calculations per product, presentation how to assemble a basic operating budget and explanation of the basic structure of the financial statements. The management introduces the basic managerial functions and their contents, the uses of network analysis in project management, with the application of multi-criteria decision, the basics of marketing and strategic management.

Momentum, Mass and Heat Transfer

Fundamentals of transport phenomena balances in homogeneous fluids. Navier-Stokes equations. Momentum transport in turbulent flows. Mechanical energy equation. Residence time distributions in continuous 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.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 15

The role of the block: PV

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

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

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

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

Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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

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

2383008	Managerial Psychology	Z	2				
2383019	Philosophical Issues Of Individual and Science	Z	2				
2383009	Communication and Dealing with People	Z	2				
Human communication	Human communication represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifications) to						

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

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 Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Jaroslava Kommová, Eliška Vítková, Petr Laurich <b>Jaroslava Kommová</b> Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME 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 Commor	n European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	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 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.							
2041062	German - Bachelor Exam / FME	Z,ZK	2				
Mapped to the Commor	n European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,				
to write a summary, a re	eport and an essay, to read technical texts, to master grammar at advanced level.						
2041065	Russian - Bachelor Exam / FME	Z,ZK	2				
Mapped to the Commor	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,				
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.							
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2				
Mapped to the 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 re	eport and an essay, to read technical texts, to master grammar at advanced level.		l				

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	KZ	2	0P+2C	*	PV
2162091	Project	KZ	2	0P+2C	*	PV
2132503	Project	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 proj	ect from the branch of specialisation, which student will study on his/her magister level	<u> </u>	
2362091	Project	KZ	2
2152091	Deparmental Project	KZ	2
2182091	Project	KZ	2
Absolvent se sezi	námí se základy oboru Procesní technika.	·	
2162091	Project	KZ	2
Student will be int	formed about basics of environmental engineering and creation of thermal comfort.	<u> </u>	
2132503	Project	KZ	2
1		•	•

Elaboration of semester global project of mechanical drive of conveyor composed of electric motor, elastic shaft coupling (respectively V-belt drive), gearbox provided with two pairs of mating gears and compensating double-row toothed shaft coupling (respectively roller chain drive). Second, alternative arrangement of projected mechanical drive is provided instead of previous gearbox and additional mechanical drives by means of only one single-stage warm gearbox.. Elaboration of 4 additional reports analysing production and economic problems of assigned machine element (gearbox shaft or gear). Besides project of mechanical drive must be elaborated design project of crank mechanism and its flywheel for assigned single-cylinder piston engine.

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:

2163091

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
2133091	Presentation of Project	Z	4	4B	*	PV
2153091	Presentation of Project	Z	4	4B	*	PV
2363091	Project Presentation	Z	4	4B		PV
2183091	Project Presentation	Z	4	0P+4C	*	PV
2373091	Project presentation	Z	4	4B	*	PV
2163091	Project Presentation	Z	4	4B	*	PV

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

2133091	Presentation of Project	Z	4			
2153091	Presentation of Project	Z	4			
2363091	Project Presentation	Z	4			
2183091	Project Presentation	Z	4			
Preparation and preser	ntation of a given project theme.					
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.						

Project Presentation Processing and presentation of engaged theme

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

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

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
2113985	Bachelor Thesis	Z	5	0P+6C	*	PV
2123985	Bachelor Thesis	Z	5	0P+6C	*	PV
2353985	Bachelor Thesis Miroslav Ondrá ek	Z	5	6C	*	PV
2313985	Bachelor Thesis Michael Valášek	Z	5	0P+6C	*	PV
2133985	Bachelor Thesis František Lopot	Z	5	0P+6C	*	PV

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

Characteristics of the courses of this group of Study Flan. Code=12B3 64-KFF-BF Name=10 2012 B31K 6.5em 1povvoi KFF-BF							
2113985	Bachelor Thesis	Z	5				
2123985	Bachelor Thesis	Z	5				
Students under skilled supervision prepare, working, consult and finalise their bachelory project.							
2353985	Bachelor Thesis	Z	5				
The course focuses on	The course focuses on processing the final thesis within the scope of the assigned topic of the bachelor thesis. The student is acquainted with the general principles of the final thesis						
and during regular wee	kly consultations with the supervisor proceeds in the professional solution of the assigned problem and at the same time wor	ks on the actual t	ext of the final				
thesis. In the course of	thesis. In the course of the solution, the student completes a small oral presentation where the work in progress is presented.						
2313985	Bachelor Thesis	Z	5				
individual assignment							
2133985	Bachelor Thesis	Z	5				

Name of the block: Elective courses

Minimal number of credits of the block: 32

The role of the block: V

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 Strojírenství povinné, avšak jsou povinné u studijního programu B2342 Teoretický základ strojního inženýrství.

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) ZK 0P+0L 202A041 3 Physics I. 202A025 ΖK 2 0P+0C ٧ **Physics II.A** 201A021 ZK 0P+0C ٧ Constructive Geometry A **Mathematics I.A** 0P+0C 201A056 ZK 4 Radka Keslerová Mathematics II.A 201A062 ZK 4 0P+0C Radka Keslerová Mathematics III.A 201A009 2 0P+0C ZK V Stanislav Kra mar Mechanics I.A 231A101 ZK 2 0P+0C ٧ Michael Valášek Mechanics II.A 231A102 2 0P+0C ZK V Michael Valášek 212A500 0P+0C Fluid Dynamics A ZK 3 ٧ **Numerical Mathematics A** 201A049 ZK 2 0P+0C Lud k Beneš 212A023 ZK 2 0P+0C Thermodynamics A

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

Physics I.

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

202A025 Physics II.A

ZK 2

Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements.

-	Spectra, x-rays, ; laser, Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.							
	201A021	Constructive Geometry A	ZK	3				
-	The subject is focused of							
	201A056	Mathematics I.A	ZK	4				
-	Introduction to linear alg							
	201A062	Mathematics II.A	ZK	4				

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

201A009	Mathematics III.A	ZK	2
231A101	Mechanics I.A	ZK	2
231A102	Mechanics II.A	ZK	2
212A500	Fluid Dynamics A	ZK	3

The basic course in fluid dynamics deals with fundamental laws of hydrostatics and hydrodynamics and their application on the basic problems, as 1D flow in ducts, estimation of pressure losses, simplified solution of unsteady flow. Basic information on more complicated problems (laminar and turbulent flow, boundary layer theory, flow sepparatrion) are introduced as well.

201A049	Numerical Mathematics A	ZK	2
212A023	Thermodynamics A	ZK	2

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

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 meant for high-school students for repetition of high-school physics.						
2016007	Mathematics I Seminar	Z	2			

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

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

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
2240455	Tutors, authors and guarantors (gar.)  English Conversation	7		00.00	*	
2046155	Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	,	V
2046156	English Conversation Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate 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, Michaela Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michael 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 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 Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced	Z	2	0P+2C	L	V
2046117	Jaroslava Kommová  Czech -Advanced	Z	2	0P+2C	Z	V
2046127	Jaroslava Kommová  Czech - Upper Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate	Z	2	0P+2C	L	V
2046119	Jaroslava Kommová  Czech Language for Beginners I.  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II.	Z	2	0P+2C	L	V
2046086	Jaroslava Kommová  French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Cost)	Z	2	0P+2C	Z	V
2046087	Schusová (Gar.)  French - Lower Intermediate Course	Z	2	0P+2C	L	V
2046091	Dušana Jirovská <b>Dušana Jirovská</b> Dušana Jirovská (Gar.)  French - Advanced	Z	2	0P+2C	L	V
	Dušana Jirovská <b>Dušana Jirovská</b> Dušana Jirovská (Gar.)  French - Advanced	_			_	
2046090	Michaela Schusová, Dušana Jirovská, Eliška Vítková <b>Eliška Vítková</b> Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Dušana Jirovská <b>Dušana Jirovská</b> 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 <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046085	French - Beginners´ Course 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 Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Jaroslava Kommová, Eliška Vítková, Petr Laurich <b>Jaroslava Kommová</b> 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 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 Jaroslava Kommová, 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 <b>Jaroslava Kommová</b> 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 Vitková	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 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 Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Hana Voleiníková, 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 Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	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 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 Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V

kurzy a prezentace	8		
2046155	English Conversation	Z	2
Improving communicative	ve skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communicative	ve skills in speaking on general topics and general technical topics.	'	
2046071	English - Lower Intermediate	Z	2
Mapped to the Commor	n 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 ar	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sir	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehension	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	ten and oral skills	on advanced
level. Ability to write a su	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	ld of studies withou	out difficulties.
Grammar structures on	advanced level. B1 - B2.		

2046075	English - Advanced	Z	2
	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E		
1 ' '	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprel is from student's field of studies without difficulties. Grammar structures on advanced level.	lension of popular	-scientific and
2046072	English - Upper Intermediate	Z	2
	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard		_
	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 Commo	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	glish and commor	professional
	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broad	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	1ge). A1
2046069	English - Beginners  n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	. – .	
* *	minology (professional language).	and asc of be	isic expressions
2046126	Czech Lower Intermediate	Z	2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sin	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language.		
2046125	Czech Lower Intermediate	Z	2
_	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sim	nple way about
	and comprehension of simple texts. Improvement of professional language.		_
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen	_	
	is from student's field of studies without difficulties. Grammar structures on advanced level.	sion of popular-sc	lentine and
2046117	Czech -Advanced	Z	2
	cen language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	. – .	
1 '	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical an	-	
2046127	Czech - Upper Intermediate	Z	2
Understanding standard	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	eriences and
events, briefly explain of	ne's opinions and plans. Reading and understanding general and technical texts.	<u> </u>	
2046128	Czech - Upper Intermediate	Z	2
	n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional		-
knowledge technical la	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter-	mediate level. Broa	adening the
2046119	Czech Language for Beginners I.	Z	2
	pozectifically days for Degitties 1.  Bryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	. – .	2
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	ding and use of ba	asic expressions
of general scientific terr	minology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	iting in a simple wa	ay about familiar
	mprehension of simple texts. Improvement of professional language.	7	
2046087	French - Lower Intermediate Course  Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which	Z	2
1	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046091	French - Advanced	Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	_	
Communication with na	tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ar	nd understanding t	exts concerning
currant issues and pop	ular scientific and technical articles.		
2046090	French - Advanced	Z	2
1 '	ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio		Expressing
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te		
2046089	French - Upper Intermediate	Z	2
1	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students on Iking about these topics. Ability to describe experiences and events, explain one´s opinions and plans. Reading and understa		
2046088	French - Upper Intermediate	7	2
1	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	
I -	one's opinions and plans. Reading and understanding general and technical texts.		
2046084	French - Beginners	Z	2
Understanding clearly v	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	iting in a simple wa	ay about familiar
	mprehension of simple texts. Improvement of professional language.		
2046085	French - Beginners´ Course	Z	2
	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which		
2146060	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange		
	Indonesian Language Course for Exchange nguage for Student Exchange Program to Indonesia	Z	2
2146061	Technical Indonesian - Course I.	Z	2
!	ian Language for Student Exchange Program to Indonesia		-
2144062	Technical Indonesian - Course II.	Z,ZK	3
	nguage for Student Exchange Program to Indonesia		

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	Z	2
Sites stated and should be shown about overy day situations which a stated in neets at school of 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.		
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		
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	nent of professional	
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		_
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comparising articles or toylo from student's field of studies without difficulties. Crommer structures on advanced level.	renension of popul	ar-scientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	7	2
2046082   German - Advanced Course   Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participations of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participations of spoken language as well as lectures in German on topics familiar to the student.	Z	2 Everessing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and		. Expressing
2046081 German - Upper Intermediate Course	7	2
Mapped to the level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students		
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and unders		
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. Ab	ility to describe exp	eriences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046076 German - Beginners	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	essional language)	
2046077 German - Beginners	Z	2
Mapped to the level Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understandin	g and use of basic	expressions of
general scientific terminology (professional language).		
2046161 Presentations in English	Z	2
Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.		
2046166 Presentations in Czech	Z	2
Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments.	_	
2046162 Presentations in German	Z	2
Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.		
2046164 Presentations in Russian	Z	2
Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	_	
2046163   Presentations in French language	Z	2
Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	7	0
2046165   Presentations in Spanish	Z	2
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.  2046137 Russian - Lower Intermediate Course	7	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	_	_
topics. Reading and comprehension of simple texts. Improvement of professional language.	vitting in a cimple w	ay about farmiar
2046138 Russian - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s	_	_
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of pro	fessional language.	
2046141 Russian - Advanced	Z	2
Comprehension of spoken language as well as lectures in Russian 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.	
2046142 Russian - Advanced	Z	2
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian or	tonica familiar to th	e student.
	•	
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading	•	texts concerning
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.	and understanding	_
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate	and understanding	2
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student	and understanding  Z  meets at work, at s	2 school, during
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders	Z meets at work, at standing general and	2 school, during I technical texts.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders  2046139 Russian - Upper Intermediate	Z meets at work, at standing general and	2 school, during d technical texts.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139  Russian - Upper Intermediate  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 work, at school, during free time, and talking about these topics.	Z meets at work, at standing general and	2 school, during d technical texts.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139  Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139  Russian - Upper Intermediate  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 work, at school, during free time, and talking about these topics.	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139  Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136  Russian - Beginners	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140  Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139  Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136  Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding currant issues and popular scientific and technical texts.	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and 2 sic expressions
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  Russian - Beginners	Z meets at work, at standing general and Z illity to describe exp	2 school, during d technical texts. 2 eriences and 2 sic expressions
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners  Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  Spanish - Lower Intermediate  Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a second current scientific terminology (professional European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a second current scientific terminology (professional European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a second current scientific terminology (professional European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a second current scientific terminology (professional European Framework of Reference A2 Understanding clearly what is spoken about everyday situations whi	Z meets at work, at standing general and Z mility to describe exp Z ding and use of bas Z essional language) Z tudent meets at sch	2 school, during d technical texts. 2 eriences and 2 sic expressions 2
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners  Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  Spanish - Lower Intermediate  Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a server time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional professional and professional and professional familiar topics. Reading and comprehension of simple texts. Improvement of professional professional and professional and professional familiar topics. Reading and comprehension of simple texts. Improvement of professional professional professional and professional familiar topics. Reading and comprehension of simple texts. Improvement of professional professional and professional professional professional professional pr	Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at sch fessional language.	2 school, during d technical texts.  2 eriences and  2 sic expressions  2 ool or in his/her
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate  Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners  Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099 Spanish - Lower Intermediate  Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a s free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional spanish - Lower Intermediate	Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at sch fessional language.  Z	2 school, during d technical texts. 2 eriences and 2 sic expressions 2 cool or in his/her
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate  Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners  Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners  Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099 Spanish - Lower Intermediate  Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a s free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional decards 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 them. Writing in 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 decards what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing i	Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at sch fessional language.  Z	2 school, during d technical texts. 2 eriences and 2 sic expressions 2 cool or in his/her
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Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099 Spanish - Lower Intermediate Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stree time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046098 Spanish - Lower Intermediate  Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V topics. Reading and comprehension of simple texts. Improvement of professional language.	and understanding  Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at schefessional language.  Z Vriting in a simple w	2 school, during d technical texts. 2 eriences and 2 sic expressions 2 cool or in his/her 2 ay about familiar
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099 Spanish - Lower Intermediate Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stree time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046098 Spanish - Lower Intermediate Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V topics. Reading and comprehension of simple texts. Improvement of professional language.  2046096 Spanish - Beginners Aim:Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	and understanding  Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at schefessional language.  Z Vriting in a simple w	2 school, during d technical texts. 2 eriences and 2 sic expressions 2 cool or in his/her 2 ay about familiar
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Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading currant issues and popular scientific and technical articles.  2046140 Russian - Upper Intermediate Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and unders 2046139 Russian - Upper Intermediate Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.  2046136 Russian - Beginners Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand of general scientific terminology (professional language)  2046135 Russian - Beginners Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language)  2046099 Spanish - Lower Intermediate Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stree time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  2046098 Spanish - Lower Intermediate Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V topics. Reading and comprehension of simple texts. Improvement of professional language.  2046096 Spanish - Beginners Aim:Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	and understanding  Z meets at work, at standing general and Z mility to describe exp  Z ding and use of base  Z essional language)  Z tudent meets at schefessional language.  Z Vriting in a simple w  Z em. Writing in a sim	2 school, during d technical texts. 2 eriences and 2 sic expressions 2 cool or in his/her 2 ay about familiar 2 nple way about 2

## List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III  An introductory course in ordinary differential equation and infinite series.	Z,ZK	5
2011021	Constructive Geometry  The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	Z,ZK ons.	6
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 equations, initial and boundary value problems. Numerical solution of basic linear partial differential equations by finite difference		y differential
2011056	Mathematics I	Z,ZK	8
_	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: e of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti		-
, ,	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,		
1 -	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green	· ·	
·	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.	_	
2012035	Algorithmization and Programming Fundamentals  MATLAB and its programming language. MATLAB command line. Elementary commands, variable, assignment and expression. Matri	KZ	4
	iput and output. Condition and cycle. Algorithmization of simple problems in MATLAB. Graphical commands. Matrix operations. Syste		
	ructure of program. Variables, expressions, assignment, and input / output commands. switch. For cycle. Arrays and files. Pointers. St		
simple programs	s: minimum, mean, norm, numerical integration, bisection method, Newton method, matrix operations. Direct methods for solution of s	ystems of linear e	quations.
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A009	Mathematics III.A	ZK	2
201A021	Constructive Geometry A  The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ZK	3
201A049	Numerical Mathematics A	ZK	2
201A056	Mathematics I.A	ZK	4
20171000	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
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentiability is a set of the		
	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer		
	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	· ·	
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec latter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	•	
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe	-	
2021041	Physics I.	Z,ZK	7
-	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	-	
	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co		
insulators. Magnet	ic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire measurements of 11 various experiments related to the lectures.	or measurements,	regression,
2026016	Physics - Seminar The subject is mainly meant for high-school students for repetition of high-school physics.	Z	2
202A025	Physics II.A	ZK	2
	ectromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec		
	natter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	•	
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experies L		
202A041	Physics I.  namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	ZK   nerties of bodies (	Scillations
1	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	•	
insulators. Magnet	ic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire	ct measurements,	regression,
0041001	measurements of 11 various experiments related to the lectures.	771	
2041061	English-Bachelor Exam	Z,ZK	discussions
	Imon 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.		
2041062	German - Bachelor Exam / FME	Z,ZK	discussions
iviapped to the Corr	Imon 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.	ics, to take part in (	aiocuooiUHS,

2041063 Mapped to the Com	French - Bachelor Exam /FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	Z,ZK ties, to take part in c	2 discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064 Mapped to the Com	Spanish - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	Z,ZK ties, to take part in c	2 discussions,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater 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	
2046068	English - Beginners abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (g	Z Z	2
2046069	English - Beginners	Z	2
Mapped to the Com	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expressions
2046070	of general scientific terminology (professional language).  English - Lower Intermediate	7	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.  familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	Writing in a simple	
2046071	English - Lower Intermediate	Z	2
Mapped to the Con	nmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s		er at school
	time and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improveme	nt of professional la	anguage. 2
2046072 The aim is to extend	English - Upper Intermediate I language skills taking into consideration professional English and common professional terminology. Comprehension of standard En	│   ∠ glish speech and c	
	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2		
2046073	English - Upper Intermediate mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	Z	2
	ehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi	•	
	knowledge.		
2046074	English - Advanced ension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	Z Z	2
	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field		
0040075	Grammar structures on advanced level. B1 - B2.		
2046075   Mapped to the Co	English - Advanced mmon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En	Z   glish without great	difficulties
	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher		
0040070	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	7	
2046076 Basic vocal	German - Beginners bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	∠ rofessional langua∉	ae) 2
2046077	German - Beginners	Z	2
Mapped to the leve	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an general scientific terminology (professional language).	d use of basic expr	ressions of
2046078	German - Lower Intermediate Course	Z	2
Aim: Understanding	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
2046079	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  German - Lower Intermediate Course	Z	2
	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	1	
	time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	nt of professional la	
2046080	German - Upper Intermediate Course andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	Z Z	ences and
Onderstanding sta	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe experie	crices and
2046081	German - Upper Intermediate Course	Z	2
	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi		
2046082	German - Advanced Course	Z	2
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation		
2046083	Vritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a German - Advanced Course	Z	es. 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 Ge	erman without grea	at difficulties
and active participa	tion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	nsion of popular-so	cientific and
2046084	French - Beginners	Z	2
l I	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	j in a simple way ab	
2046085	French - Beginners' Course	Z	2
	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a		
2046086	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement  French - Lower Intermediate Course	or professional lan	iguage.
	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing		
2046087	topics. Reading and comprehension of simple texts. Improvement of professional language.  French - Lower Intermediate Course	Z	2
Mapped to the leve	el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool or in
his/her free time	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	ot professional lan	nguage. I

2046088	French - Upper Intermediate	Z		2
	• •	_	1	
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi	ences	and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	_		_
2046089	French - Upper Intermediate	Z	l .	2
Mapped to the leve	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students con	nes across at work	, at sc	hool,
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandi	ng general and tec	hnical	texts.
2046090	French - Advanced	Z		2
Comprehension	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatior	in discussions. Ex	xpress	ing
opinions. V	Vritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical articl	es.	
2046091	French - Advanced	7		2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	. –	l .	
	n native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u			
Communication with	currant issues and popular scientific and technical articles.	inderstanding texts	COLIC	Jiiiiig
20.40000	· ·	7		$\overline{}$
2046096	Spanish - Beginners	Z	l .	2
Aim:Understanding	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	vvriting in a simple	way a	about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.			
2046097	Spanish - Beginners	Z		2
Mapped to the Co	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	chool o	or in
his/her free time	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lar	nguage	э.
2046098	Spanish - Lower Intermediate	Z		2
Understanding clear	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way al	bout fa	amiliar
· ·	topics. Reading and comprehension of simple texts. Improvement of professional language.			
2046099	Spanish - Lower Intermediate	Z		2
	opanish - Lower intermediate  I of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	_	1	
				15/1161
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of			_
2046117	Czech -Advanced	Z	l	2
•	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis		ng opi	nions.
Writte	n skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.		
2046118	Czech -Advanced	Z		2
Mapped to the level	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	ch without great dif	ficultie	s and
active participation	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	sion of popular-scie	entific a	and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.			
2046119	Czech Language for Beginners I.	7		2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	I .	_
		7 - Tolessional langua	· —	2
2046120	Czech Language for Beginners II.			
			l	
Mapped to the Com	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	l	
	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).		expres	ssions
Mapped to the Com	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expres	
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	Z	expres	ssions 2
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).  Czech Lower Intermediate	Z	expres	ssions 2
2046125	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).  Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z	expres	ssions 2
2046125 Aim: Understanding 2046126	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).  Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  Czech Lower Intermediate	Z Writing in a simple	expres way a	2 about
2046125 Aim: Understanding 2046126	common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).  Czech Lower Intermediate  g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.  Czech Lower Intermediate  g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Writing in a simple	expres	2 about
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2046142	Russian - Advanced	Z	2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	•	
Communication wi	th native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	inderstanding texts	concerning
2040455	currant issues and popular scientific and technical articles.	Z	
2046155	English Conversation  Improving communicative skills in speaking on general topics and general technical topics.		2
2046156	English Conversation	Z	2
2040130	Improving communicative skills in speaking on general topics and general technical topics.	2	2
2046161	Presentations in English	Z	2
2010101	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.	_	_
2046162	Presentations in German	Z	2
	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.	ı	I
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
	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
	Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046166	Presentations in Czech	Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department of the control of the cont		
2111052	Experimental Methods and Certification Engines	Z,ZK	7
2112092	Department Project	KZ	4
2113985	Bachelor Thesis	Z	5
2121023	Thermodynamics	Z,ZK	5
	ith a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers.		· -
	ry are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with a Firer fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application.Exercises and		•
r leat transier cov	problems and experimental technique.	iabs are devoted t	o practical
2121500	Fluid Dynamics	Z,ZK	5
	e in fluid dynamics deals with fundamental laws of hydrostatics and hydrodynamics and their application on the basic problems, as 1		_
	s, simplified solution of unsteady flow. Basic information on more complicated problems (laminar and turbulent flow, boundary layer the		
	introduced as well.		
2122092	Department Project	KZ	4
	he content of the subject is given by the topic of bachelor's work after consultion with supervisor of bachelor work or the tutor of the		
2123985	Bachelor Thesis	Z	5
	Students under skilled supervision prepare, working, consult and finalise their bachelory project.		
212A023	Thermodynamics A	ZK	2
	ith a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Bas By are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with		-
	rers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application.Exercises and		•
riodi ilanoloi oo	problems and experimental technique	iabo aro dovotoa i	o praotioai
212A500	Fluid Dynamics A	ZK	3
	e in fluid dynamics deals with fundamental laws of hydrostatics and hydrodynamics and their application on the basic problems, as 1		I
pressure losses	s, simplified solution of unsteady flow. Basic information on more complicated problems (laminar and turbulent flow, boundary layer the	eory, flow seppara	trion) are
	introduced as well.		
2131002	Engineering Design II	Z,ZK	4
· ·	CPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	-	
	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the		
2131005	History of Technology	ZK	3
	f human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the r		
2131026	Machine Elements and Mechanisms II	ZK	3
	, design calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanism, p	l	I
, , , , , ,	and fittings.		
2131120	Design of Steel Structures	Z,ZK	6
2131512	Machine Elements and Mechanisms I.	Z,ZK	6
	elements (screwed, clamped, splined, welded, riveted, soldered and adhesive joints; joints with use of feathers, pins, tenons, cotters, ke		ansmissions
(belt, chain, frict	ion, gear drives). Seminars are devoted to practical individual solution of simple design projects - tasks with motion screws, preloaded	d connecting bolts,	clamped,
pressed, splined a	nd key joints between shafts and hubs and tasks with welded and riveted joints. Sketching of machine elements and their simple assen	nbly units is also in	dispensable
	seminar work.		1
2132001	Engineering Design I.	KZ	2
040000	Basic of technical representation, dimensioning and tolerancing		
2132092	Project	KZ	4
	mester global project of mechanical drive of conveyor composed of electric motor, elastic shaft coupling (respectively V-belt drive), ge d compensating double-row toothed shaft coupling (respectively roller chain drive). Second, alternative arrangement of projected mech	-	-
	a compensating double-row toomed shart coupling (respectively roller chain drive). Second, alternative arrangement of projected mech x and additional mechanical drives by means of only one single-stage warm gearbox Elaboration of 4 additional reports analysing prod	-	
	ichine element (gearbox shaft or gear). Besides project of mechanical drive must be elaborated design project of crank mechanism a		-
	single-cylinder piston engine.	•	-

of provincing quantities and subficient in interhandical drives by present of anytone and personal properties and explorate inspiration and in Bytherells for analyzed machiner and time to be eliborated design project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and its Bytherells for analyzed project of turnsh mechanisms and the Bytherells for analyzed project of turnsh mechanisms and the Bytherells for analyzed project of turnsh mechanisms and the Bytherells for analyzed project	2182091 2183091 2211581 The course provide and trans 2212092 2311073 2311101 Mechanics I deals of point general spatial motion	Absolvent se seznámí se základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry requivalent of Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, son. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms in this member of the project Individual asignment  Bachelor Thesis individual assignment  Mechanics II.A	Z,ZK e gearing basics of less of motor vehicle KZ uirements. Z,ZK tems with and with Z,ZK cherical motion, so or method. Graphichisms. Z,ZK XZ	4 5 productions. 4 6 4 anout friction 4 rew motion all methods all
de alsaged machine element (gestrox shat or pean). Eesides project of crish mechanism and its lyvaheel for assegned single-sylidate pation engine.  2133013	2182091  2183091  2211581 The course provide and trans 2212092  2311073 2311101 Mechanics I deals was a compared spatial motion of point general spatial spati	Absolvent se seznámí sé základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device  Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry required Simulation of Mechanical Systems  Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems are introduced the methods of description of position and motion of particles and rigid bodies.  Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so on. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms and the project Individual assignment  Bachelor Thesis individual assignment	Z,ZK e gearing basics of less of motor vehicle KZ uirements. Z,ZK Z,ZK etems with and with the correction of method. Graphic lisms. Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,Z	4 5 productics s. 4 6 4 cout friction 4 rew motion cal method 4 5
and assigned manchine element (gesations shaft or gear). Besides project of michanical drive must be elemented design project of crank mechanism and its Bywheel for assigned professing pattern agrings.  2133013	2182091  2183091  2211581 The course provide and trans 2212092  2311073  2311101 Mechanics I deals of the course of point general spatial motions and trans 2311108  2311108  2312092	Absolvent se seznámí se základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry required Simulation of Mechanical Systems  Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems There are introduced the methods of description of position and motion of particles and rigid bodies.  Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so on. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms III.  Department project Individual asignment	Z,ZK e gearing basics of less of motor vehicle KZ uirements. Z,ZK Z,ZK etems with and with Z,ZK cherical motion, so or method. Graphicalisms. Z,ZK KZ	4 5 productics. 4 6 4 nout friction 4 rew motiocal method
da assigned machine element (gearbox shall or gear). Besides project of mechanical drive must be elaborated design project of crank mechanism and its flywheel for assigned single-principle prison programs.  2133013	2182091  2183091  2211581 The course provide and trans 2212092  2311073  2311101 Mechanics I deals with the course provide and trans 2311102  Cinematics of point general spatial motions and trans 2311108	Absolvent se seznámí se základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry required Simulation of Mechanical Systems  Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their system of rigid bodies.  Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so on. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmittion mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms III.  Department project	Z,ZK e gearing basics of es of motor vehicle KZ uirements. Z,ZK Z,ZK etems with and with Z,ZK cherical motion, scor method. Graphichisms. Z,ZK	4 5 productics. 4 6 4 nout friction 4 rew motional method
a designed machine element (greathox shaft or gear). Besidnes project of mechanical drive must be elaborated design project of crank mechanism and its flywheel for assigned single-young project of crank mechanism and its flywheel for assigned single-young project of crank mechanism and its flywheel for assigned single-young project of crank mechanism and its flywheel for a search young project of the project	2182091  2183091  2211581 The course provide and trans 2212092  2311073  2311101 Idechanics I deals of point eneral spatial motions 2311108	Absolvent se seznámí se základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry required Simulation of Mechanical Systems  Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems There are introduced the methods of description of position and motion of particles and rigid bodies.  Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so on. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanics III.	Z,ZK e gearing basics of es of motor vehicle KZ uirements. Z,ZK Z,ZK etems with and with Z,ZK cherical motion, scor method. Graphichisms. Z,ZK	4 5 productions. 4 6 4 about friction 4 rew motions all metho
da assigned manshine element (granthox shaft or gear). Besides project of mechanical trive must be elaborated design project of crank mechanism and its flywheel for assigned stage grant grant and grant gr	2182091  2183091  2211581 The course provide and trans 2212092  2311073  2311101 Ilechanics I deals of point eneral spatial motions	Absolvent se seznámí se základy oboru Procesní technika.  Project Presentation Preparation and presentation of a given project theme.  Transmissions  as a general summary of transmissions for various applications which the student in the specialization designer-calculator meets. The port machines will be briefly explained, important calculations will be discussed in more detail on the examples of transmission device Project  Basic practical skills of work with advanced CAD/CAE/CAM systems. Project training in solution of design task based on industry required Simulation of Mechanical Systems  Mechanics I.  with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems There are introduced the methods of description of position and motion of particles and rigid bodies.  Mechanics II.  and of rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so on. Composition of mechanisms. Basic planar mechanisms. Analytical methods in kinematics of mechanisms - Trigonometric and vector in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms.	Z,ZK e gearing basics of es of motor vehicle KZ uirements. Z,ZK Z,ZK etems with and with Z,ZK oherical motion, scor method. Graphicisms.	5 productions. 4 6 4 aout friction 4 rew motions all metho
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	2133013			
previous gearbox and additional mechanical drives by means of only one single-stage warm gearbox Elaboration of 4 additional reports analysing production and economic proble	2133013	chine element (gearbox shaft or gear). Besides project of mechanical drive must be elaborated design project of crank mechanism ar	nd its flywheel for a	ssigned
mating gears and compensating double-row toothed shart coupling (respectively roller chain drive). Second, alternative arrangement of projected methalical drive is provided inst	of assigned made		-	
Elaboration of semester global project of mechanical drive of conveyor composed of electric motor, elastic shaft coupling (respectively V-belt drive), gearbox provided with two paragraphs of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drive is provided in the graph of project of mechanical drives in the graph of project of the graph of the graph of project of the graph of the gr	previous gearbox of assigned mad	r compensating double-row toothed shart coupling (respectively roller chain unive). Second, alternative arrangement of projected mecha	•	dad inata
2132503 Project Project KZ 2	mating gears and previous gearbox of assigned mad	rester global project of meditanical drive of conveyor composed of electric motor, elastic shart coupling (respectively v-bert drive), get I compensating double-row toothed shaft coupling (respectively roller chain drive). Second, alternative arrangement of projected mecha	arhov provided with	i wwo pali

	Materials Science II.	Z.ZK	4
2321039 Fundamentals of r	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and t	,	
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mater		
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, defo	rmation, recrystal	lization and
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, i		
2351110	Modeling and simulation I.	Z,ZK	5
0051117	The subject is focused on explanation of the design of machine tool axis by individual parts and components.	Z,ZK	5
2351117	Importance of fluid mechanisms and drives, principle, design and use. Divided on two parts - Hydraulics and Pneumatics		5
2352092	Specialization Project	KZ	4
	sed on elaboration of individual work, which student solves in close cooperation with the head of the assigned topic. The student will ge		
	nachines and the equipment, respectively its parts according to the orientation of their work, and during regular weekly consultations	-	-
professional solut	tion of the problem. At the end of the semester students present their work on small oral examination in which they present the work p	performed, the col	herence an
	meaning.		
2353985	Bachelor Thesis  so an processing the final thesis within the seems of the perigned tonic of the bachelor thesis. The student is conjugated with the general tonic of the bachelor thesis.	Z	5
	is on processing the final thesis within the scope of the assigned topic of the bachelor thesis. The student is acquainted with the gene ar weekly consultations with the supervisor proceeds in the professional solution of the assigned problem and at the same time work:		
and during regard	thesis. In the course of the solution, the student completes a small oral presentation where the work in progress is presented.		
2362091	Project	KZ	2
2363091	Project Presentation	Z	4
2371047	Automatic Control	Z,ZK	5
	llers are important part of many industrial processes. The goal of this course is to introduce students into basic knowledge of automa		and practic
	ons, open versus closed loop control, design of controllers and frequency based analysis of control systems. The course also concentrate	_	
via programmab	le logic controllers. Some seminaries are arranged in laboratories where practical skills and control engineering methods are trained.	Students begin to	o work with
0070044	MATLAB software as a common platform of control engineers.	1/7	
2372041	Computer Support for Study lices students into creating technical and professional documents on computers or Web and into realizing technical computations with	KZ	ers Stude
	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical computations with a spreadsheet calculator, and by creating technical computations.	=	
2372083	Measurement in Engineering	KZ	3
	isor principles for measurement of non-electrical variables (temperature, position, force, speed, acceleration, torque). Calibration and	1	1
	instruments.		
2372091	Project		_
_000.	Floject	KZ	2
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