# Study plan

## Name of study plan: 11 68 73 00 DTZI 2012 K základ

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined

Required credits: 10

Elective courses credits: 207 Sum of credits in the plan: 217

Note on the plan: SP12BTZI--K # druhý pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 0

The role of the block: P

Code of the group: 12DTK1P-KMEN

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

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

Credits in the group: 0
Note on the group:

2182019

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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
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

#### Characteristics of the courses of this group of Study Plan: Code=12DTK1P-KMEN Name=00 2012 D kmenové 1. semestr TZI kombinované

2102010	Chombay	1 1	0
General chemistry from	the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properti	es of matter, therr	modynamics,
phase equilibrium, chem	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborato	ry practice is
oriented upon the mater	ial properties measurement.		

2011021	Constructive Geometry	Z,ZK	6
The subject is focused of	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
2011056	Mathematics I	Z,ZK	8

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

2372041 Computer Support for Study KZ 3

The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with the use of computers. Students gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.

Code of the group: 12DTK2P-KMEN

Chemistry

Name of the group: 00 2012 D kmenové 2. semestr TZI 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
201A021	Constructive Geometry A  Ivana Linkeová	ZK	3	0P+0C	*	Р
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I.  Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír  Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2131002	Engineering Design II  Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr, František Lopot, Roman Uhlí Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
K333038	Fundamentals of Technology I.	Z	3	8B	*	Р

## Characteristics of the courses of this group of Study Plan: Code=12DTK2P-KMEN Name=00 2012 D kmenové 2. semestr TZI kombinované

2021041 Physics I.	Z,ZK	7
Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	ies. Oscillations,
waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicor	nductors,
insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	direct measuremer	nts, regression,
measurements of 11 various experiments related to the lectures.		
201A021 Constructive Geometry A	ZK	3
The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
201A056 Mathematics I.A	ZK	4
Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
2011062 Matematika II.	Z,ZK	8
Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differen	ential 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	ral, Fubini theorem	n. Transformation
of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gi	een's theorem. A	potential vector
field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a ve	ctor field through a	a surface. The
Gauss-Ostrogradskij theorem.		
2322029 Materials Science I.	KZ	3
History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, def	ormation, recrysta	Ilization and
fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, in	on-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-	ace texture, geome	etrical tolerance,
dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	ir knowledge from	lectures.
K333038 Fundamentals of Technology I.	Z	3
Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, te	chnical metals. Pro	oduction of pig
iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming to	echnology. Hot and	d cold forging.
Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of we	lding. Fusion weld	ing: Flame
welding and arc welding with coated electrodes. Thermal cutting.		

Code of the group: 12DTK3P-KMEN

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

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

Credits in the group: 0

Note on the group:

12B\*\*3P-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
202A041	Physics I.	ZK	3	0P+0L	*	Р
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	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. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
2133013	Engineering Design III. Jan Kanaval, Jan Hoidekr, František Lopot, David Skalický, Roman Uhlí Jan Kanaval Jan Kanaval (Gar.)	Z	2	0P+2C	Z	Р
2012035	Algorithmization and Programming Fundamentals Ji i Holman, Marta ertíková, Vladimír Hric, Lukáš Hájek, Jan Halama, Vladimír Prokop, Martin Hanek, Jan Karel, Josef Musil, Petr Svá ek Petr Svá ek (Gar.)		4	1P+2C	*	Р

## Characteristics of the courses of this group of Study Plan: Code=12DTK3P-KMEN Name=00 2012 D kmenové 3. semestr TZI kombinované

Physics I. 202A041 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.

2021025 Physics II. Z.ZK 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.

201A062 Mathematics II.A

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

2011009 Mathematics III Z,ZK 5 An introductory course in ordinary differential equation and infinite series. 2311101 Mechanics I. Z,ZK

Mechanics I deals with the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their systems with and without friction. There are introduced the methods of description of position and motion of particles and rigid bodies.

2321039

Z,ZK Materials Science II. 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing,

technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.

2133013 Engineering Design III. Design of assembly unit (draft drawing, detail drawing, assembly drawing, technical report)

2012035 Algorithmization and Programming Fundamentals ΚZ

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: 12DTK4P-KMEN

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

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

Credits in the group: 0

Note on the group:

12B\*K4P-KMFN #

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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
202A025	Physics II.A	ZK	2	0P+0C	*	Р
201A009	Mathematics III.A Stanislav Kra mar	ZK	2	0P+0C	*	Р
2311102	Mechanics II. Pavel Bastl, Václav Bauma, Petr Beneš, Ivo Bukovský, Martin Ne as, Zden k Neusser, Jan Pelikán, Pavel Steinbauer, Zbyn k Šika, Václav Bauma Václav Bauma (Gar.)	Z,ZK	4	2P+2C	*	Р
2011049	Numerical Mathematics Radka Keslerová, Ji í Holman, Marta ertíková, Vladimír Hric, Petr Louda, Lukáš Hájek, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Petr Svá ek Petr Svá ek (Gar.)	Z,ZK	4	2P+2C	4	Р
2133014	Engineering Design IV. František Lopot František Lopot (Gar.)	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=12DTK4P-KMEN Name=00 2012 D kmenové 4. semestr TZI kombinované

202A025 Physics II.A 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.

201A009	Mathematics III.A	ZK	2
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, Graphical methods in kinematics. Basic theory of gearing. Transmition mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanisms.

Z,ZK **Numerical Mathematics** Numerical solution of systems of linear equations, iterative methods. Numerical solution of nonlinear algebraic equations. Least squares method. Numerical solution of ordinary differential equations, initial and boundary value problems. Numerical solution of basic linear partial differential equations by finite difference method.

2133014 Engineering Design IV. Ζ K331068 Z,ZK Technology I 5

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

Code of the group: 12DTK5P-KMEN

Name of the group: 00 2012 D kmenové 5. semestr TZI 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+06C+1.4L	*	Р
2311107	Mechanics III. Tomáš Vampola	Z,ZK	7	2P+3C	5	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 Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

#### Characteristics of the courses of this group of Study Plan: Code=12DTK5P-KMEN Name=00 2012 D kmenové 5. semestr TZI kombinované

Z,ZK 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.

Electric Circuits and Electronics 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 electronics. Principle and typical parameters of basic semiconductor components. Application in electronic circuits (rectifier, stabilizer, power control, operational

amplifier). Analogue and digital circuits. Principle of analogue and digital signal processing. Logical circuits, converters, microprocessor. Z,ZK 2311107 Mechanics III.

Mechanics III deals with the basic concepts of dynamics. Methods of solving the dynamics of mass particle and body motion and their systems are described. Methods for describing and solving vibrations of systems.

2372083 Measurement in Engineering K7 Overview of sensor principles for measurement of non-electrical variables (temperature, position, force, speed, acceleration, torque). Calibration and verification of measurement instruments.

K341014	Technology II.	Z,ZK	5
2153005	Fundamentals of Energy Conversions	Z	1
2383001	Fundamentals of Law	Z	2

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

Code of the group: 12DTK6P-KMEN

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

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 Milan Hofreiter, R žena Petrová, Tomáš Vyhlídal, Jaromír Fišer Tomáš Vyhlídal Tomáš Vyhlídal (Gar.)	Z,ZK	5	3P+15C+05L	*	Р
2131026	Machine Elements and Mechanisms II  Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Zden k ešpíro, Martin  Dub, František Lopot, Ji í Houkal František Lopot František Lopot (Gar.)	ZK	3	3P+0C	*	Р
2141505	Electrical machines and drives Jan Chyský, Jaroslav Novák, Lukáš Novák <b>Jaroslav Novák</b> Jaroslav Novák (Gar.)	Z,ZK	4	2P+06C+1.4L	*	Р
2133025	<b>Design</b> František Lopot František Lopot František Lopot (Gar.)	Z	4	0P+4C	*	Р
2381054	Management and Economics of the Enterprise Theodor Beran, Št pánka Uli ná, Vladimír Brdek, Ladislav Vaniš, Petr Žemli ka Theodor Beran Theodor Beran (Gar.)	Z,ZK	4	2P+2C	*	Р
2181026	Momentum, Mass and Heat Transfer Martin Dostál, Vojt ch B Iohlav, Stanislav Solna , Jan Sko ilas, Tomáš Jirout, Adam Krupica, Ji í Moravec Tomáš Jirout Tomáš Jirout (Gar.)	Z,ZK	5	3P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12DTK6P-KMEN Name=00 2012 D kmenové 6. semestr TZI kombinované

2371047 Automatic Control

Autom

2131026 | Machine Elements and Mechanisms II | ZK | 3 | Preliminary design, design calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanism, pipelines and their accessories and fittings.

2141505 Electrical machines and drives Z,ZK 4

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 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 Z,ZK 4

The subject is intended to teach the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasoning and to help them understand the basic relationships between economic quantities costs - revenues, expenses - incomes and other basic economic terms. The goal is for the audience to be able to communicate with economists in organizations, every product or service is valued at a selling price and therefore it is necessary to understand the simple costing of products and services. Every technician will encounter reports and should understand the basic structure of financial statements. As a future manager, he will compile and approve the operating budget. In the field of management, they will learn basic management functions and their content. Furthermore, they will learn how to use network analysis in project management. For decision-making purposes, they will learn the applications of multi-criteria decision-making. The basics of marketing and strategic management will be introduced.

2181026 Momentum, Mass and Heat Transfer Z,ZK

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 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: 10

The role of the block: PV

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

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

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

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

Credits in the group: 2

Note on the group: Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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

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

2383009 Communication and Dealing with People Z 2

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

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

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

Code of the group: 12BT\*6Q-OP

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

English Deebeley Even

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:

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
2012091	Project Ji i Fürst	KZ	2	0P+2C	*	PV
2152091	Deparmental Project	KZ	2	0P+2C	*	PV
2182091	Project Tomáš Jirout	KZ	2	0P+2C	*	PV
2322091	Project Jana Sobotová, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	KZ	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV
2352091	Specialization Project	KZ	2	0P+2C+0L	*	PV
2362091	Project	KZ	2	0P+2C	*	PV
2372091	Project	KZ	2	0P+2C	*	PV

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

2012091	Project	KZ	2
2152091	Deparmental Project	KZ	2
2182091	Project	KZ	2
Absolvent se seznámí s	e základy oboru Procesní technika.	•	•
2322091	Project	KZ	2
On the basis of the preli	minary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing a	nd evaluating the	studied literature
with particular emphasi	s on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	or evaluate hither	to obtained
knowledge or results.			
2332091	Project	KZ	2
2342091	Project	KZ	2
Work on specialized tas	ks.		
2352091	Specialization Project	KZ	2
2362091	Project	KZ	2
2372091	Project	KZ	2
An individual project fro	m the branch of specialisation, which student will study on his/her magister level	•	•

Code of the group: 12BT\*6Q-BP

Name of the group: 11 2012 BTZI 6. sem bakalá ské práce

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:

poznámka 12BT\*6Q-BP 2012 BTZI 6. sem bakalářské práce

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
2213991	Bachelor Thesis	Z	4	0P+8C	*	PV
2373991	Bachelor Thesis	Z	4	0P+0C	*	PV
2363991	Bachelor Thesis	Z	4	0P+0C	*	PV
2153991	Bachelor Thesis	Z	4	0P+0C	*	PV
2323991	Bachelor thesis	Z	4	0P+6C	*	PV
2183991	Bachelor Thesis Tomáš Jirout	Z	4	0P+0C	*	PV
2333991	Bachelor Thesis	Z	4	0P+0C	*	PV
2013991	Bachelor Thesis	Z	4	0P+0C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BT\*6Q-BP Name=11 2012 BTZI 6. sem bakalá ské práce

2213991	Bachelor Thesis	Z	4
2373991	Bachelor Thesis	Z	4
Each student will s	solve his individual theme under guiding of his individual supervising department specialist. Result is his/her bachelor thesis.	'	<u> </u>
2363991	Bachelor Thesis	Z	4
2153991	Bachelor Thesis	Z	4
2323991	Bachelor thesis	Z	4
Development of th	e bachelor thesis on an assignment under the supervision.		<u> </u>
2183991	Bachelor Thesis	Z	4

2333991	Bachelor Thesis	Z	4
2013991	Bachelor Thesis	Z	4

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

The role of the block: V

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			Semester	Role
2026016	Physics - Seminar	Z	2	0P+2C	1	V
2016007	Mathematics I Seminar Radka Keslerová, Hynek ezní ek, Olga Majlingová Radka Keslerová Gejza Dohnal (Gar.)	Z	2	0P+2C	1	V

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

2026016	Physics - Seminar	Z	2
The subject is mainly m			
2016007	Mathematics I Seminar	Z	2

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

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

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

Credits in the group: 0
Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation  Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc <b>Michaela Schusová</b> Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	L	V

2046125	Czech Lower Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced  Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046127	Czech - Upper Intermediate  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate  Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I.  Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II.  Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course  Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská (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 Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich <b>Michaela</b> Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich <b>Michaela</b> Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners  Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška  Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046161	Presentations in English Michaela Schusová	Z	2	0P+2C	*	V
2046166	Presentations in Czech  Jaroslava Kommová	Z	2	0P+2C	*	V
2046162	Presentations in German  Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová  Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
				†		<del> </del>
2046164	Presentations in Russian  Dušana Jirovská	Z	2	0P+2C	*	V

2046165	Presentations in Spanish Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská <b>Dušana Jirovská</b>	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková <b>Michaela Schusová</b> Michaela Schusová (Gar.)	Z	2	0P+2C	Z	>
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	٧
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	>
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	٧
2046097	<b>Spanish - Beginners</b> Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V

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

0040455			
2046155	English Conversation	Z	2
Improving communicati	ve skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communicati	ve skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
1 ' '	n European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which		
or at his/her free time a	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professiona	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	em. Writing in a sir	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
	in of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ		
	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie	eld of studies without	out difficulties.
	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		
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre	hension of popula	r-scientific and
	s from student's field of studies without difficulties. Grammar structures on advanced level.	1	
2046072	English - Upper Intermediate	7	2
	· · · · · · · · · · · · · · · · · · ·	!	_
	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	d English speech a	_
about topics of everyda	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		and conversation
about topics of everyda	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate	Z	and conversation
about topics of everyda 2046073 Mapped to the Commo	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	Z glish and common	and conversation  2 n professional
about topics of everyda 2046073 Mapped to the Commo	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate	Z glish and common	and conversation  2 n professional
about topics of everyda 2046073 Mapped to the Commo terminology. Comprehe	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	Z glish and common	and conversation  2 n professional
about topics of everyda 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate	Z glish and common nediate level. Broa	2 n professional dening grammar
about topics of everyda 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners	Z glish and common nediate level. Broa	2 n professional dening grammar
about topics of everydal 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En insion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  feveryday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	Z glish and commonediate level. Broan Z rofessional langua	2 n professional dening grammar 2 age). A1 2
about topics of everydal 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En insion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  feveryday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (penglish - Beginners	Z glish and commonediate level. Broan Z rofessional langua	2 n professional dening grammar 2 age). A1 2
about topics of everydal 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  English - Upper Intermediate  European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En insion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (penglish - Beginners  European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form. Understanding and use of everyday life in a written and spoken form.	Z glish and commonediate level. Broan Z rofessional langua	2 n professional dening grammar 2 age). A1 2
about topics of everydae 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo of general scientific term 2046126	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (pendicular terminology)  English - Beginners  European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language).	Z glish and common nediate level. Broad rofessional languary Z ding and use of back	and conversation  2 n professional dening grammar  2 age). A1 2 asic expressions
about topics of everydae 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo of general scientific term 2046126 Aim: Understanding cle	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p  English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language).  Czech Lower Intermediate	Z glish and common nediate level. Broad rofessional languary Z ding and use of back	2 n professional dening grammar  2 age). A1 2 asic expressions
about topics of everydae 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo of general scientific term 2046126 Aim: Understanding cle	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (penglish - Beginners  n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language).  Czech Lower Intermediate  arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	Z glish and common nediate level. Broad rofessional languary Z ding and use of back	2 n professional dening grammar  2 age). A1 2 asic expressions
about topics of everydae 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo of general scientific terri 2046126 Aim: Understanding cle familiar topics. Reading 2046125	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (penglish - Beginners  European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understantinology (professional language).  Czech Lower Intermediate  arty what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language.	Z glish and common nediate level. Broad rofessional languary Z ding and use of barriage. Z m. Writing in a sir	and conversation  2 n professional dening grammar  2 age). A1 2 asic expressions  2 nple way about
about topics of everydae 2046073 Mapped to the Commo terminology. Comprehe knowledge. 2046068 Aim: Basic vocabulary of 2046069 Mapped to the Commo of general scientific terri 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.  English - Upper Intermediate  n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Ennsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate  English - Beginners  of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (penglish - Beginners  n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understantinology (professional language).  Czech Lower Intermediate  and comprehension of simple texts. Improvement of professional language.  Czech Lower Intermediate	Z glish and common nediate level. Broad rofessional languary Z ding and use of barriage. Z m. Writing in a sir	and conversation  2 n professional dening grammar  2 age). A1 2 asic expressions  2 nple way about

	Czech -Advanced	Z	2
	ommon European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C iscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	•	
	from student's field of studies without difficulties. Grammar structures on advanced level.	olon ol popular oc	normino dina
2046117	Czech -Advanced	Z	2
	n language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in rite an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar	-	essing opinions.
	Czech - Upper Intermediate	Z	2
	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit		
events, briefly explain on	e's opinions and plans. Reading and understanding general and technical texts.		
	Czech - Upper Intermediate	Z	2
	European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interr		-
knowledge technical lang	· · · · · · · · · · · · · · · · · · ·	modiato lovoi. Bro	addining the
	Czech Language for Beginners I.	Z	2
	yday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess		
1	Czech Language for Beginners II.  European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	Z	2 asic expressions
1 ' '	nology (professional language).	ullig and use of be	asic expressions
2046086	French - Lower Intermediate Course	Z	2
1	nat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	ting in a simple w	ay about familiar
	prehension of simple texts. Improvement of professional language.  French - Lower Intermediate Course	Z	2
	priench - Lower intermediate Course  primon European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which		
	aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of		
	French - Advanced	Z	2
1 '''	ommon European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on top		
	ve speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ar scientific and technical articles.	id understanding	lexis concerning
	French - Advanced	Z	2
	n language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation		Expressing
	bility to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tec		
1	French - Upper Intermediate pmmon European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students co	Z nmes across at w	2 ork at school
1 '''	ing about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understal		
2046088	French - Upper Intermediate	Z	2
	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit	ty to describe exp	eriences and
	e's opinions and plans. Reading and understanding general and technical texts.  French - Beginners	7	2
1	at is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri		
	prehension of simple texts. Improvement of professional language.	g a op.o	ay about familiar
1	E   D : /O		
	French - Beginners' Course	Z	2
	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	Z a student meets	2 at school or in
his/her free time and spe	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	Z a student meets of professional lan	2 at school or in iguage.
his/her free time and spe 2146060	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	Z a student meets	2 at school or in
his/her free time and spe 2146060 Basic of Indonesian Lang 2146061	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange guage for Student Exchange Program to Indonesia  Technical Indonesian - Course I.	Z a student meets of professional lan	2 at school or in iguage.
his/her free time and spe 2146060 Basic of Indonesian Lang 2146061 Second part of Indonesia	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange guage for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  In Language for Student Exchange Program to Indonesia	Z a student meets of professional lan Z	2 at school or in inguage.
his/her free time and spe 2146060 Basic of Indonesian Lang 2146061 Second part of Indonesia 2144062	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange guage for Student Exchange Program to Indonesia  Technical Indonesian - Course I. In Language for Student Exchange Program to Indonesia  Technical Indonesian - Course II.	Z a student meets of professional lan Z	2 at school or in iguage. 2
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his/her free time and spe 2146060 Basic of Indonesian Lang 2146061 Second part of Indonesia 2144062 Basic of Indonesian Lang 2046078 Aim: Understanding clea familiar topics. Reading a	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange puage for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  In Language for Student Exchange Program to Indonesia  Technical Indonesian - Course II.  Juage for Student Exchange Program to Indonesia  German - Lower Intermediate Course  Ity what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language.	Z a student meets of professional lan Z Z Z,ZK Z,ZK Z m. Writing in a sin	2 at school or in inguage.  2 2 3 2 nple way about
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his/her free time and specific to the level of Cornin his/her free time and specific to the level of Cornin days and active participation in	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange guage for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  In Language for Student Exchange Program to Indonesia  Technical Indonesian - Course II.  Iguage for Student Exchange Program to Indonesia  German - Lower Intermediate Course  Indy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them and comprehension of simple texts. Improvement of professional language.  German - Lower Intermediate Course  Ommon European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement German - Advanced Course  Ommon European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre	Z a student meets of professional land Z Z Z,ZK Z,ZK Z m. Writing in a sind a student meets at student meets at of professional Z German without	2 at school or in guage. 2 2 3 2 nple way about 2 seither at school language. 2 great difficulties
his/her free time and special process of Indonesian Lange 2146061 Basic of Indonesian Lange 2146061 Second part of Indonesian Lange 2144062 Basic of Indonesian Lange 2046078 Aim: Understanding clean familiar topics. Reading a 2046079 Mapped to the level of Coror in his/her free time and 2046083 Mapped to the level of Coron and active participation in scientific articles or texts	ommon European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of Indonesian Language Course for Exchange guage for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  In Language for Student Exchange Program to Indonesia  Technical Indonesian - Course II.  In Juage for Student Exchange Program to Indonesia  German - Lower Intermediate Course  Indy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them and comprehension of simple texts. Improvement of professional language.  German - Lower Intermediate Course  Tommon European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement German - Advanced Course  Tommon European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprefrom student's field of studies without difficulties. Grammar structures on advanced level.	Z a student meets of professional land Z Z Z,ZK Z,ZK Z m. Writing in a sind a student meets at student meets at of professional Z a German without whension of popular	2 at school or in guage. 2 2 3 2 nple way about 2 seither at school language. 2 great difficulties ar-scientific and
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2046077	Cormon Borinners	7	2
	German - Beginners ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	Z	2 expressions of
	inology (professional language).	g and use of basic i	expressions of
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.		2
		7	0
2046166	Presentations in Czech	Z	2
· ·	give presentations in English on technical topics, with a possible co-operation with specialized departments.	7	0
2046162	Presentations in German	Z	2
	ting technical topics in German, possibly in cooperation with specialized departments.	_	
2046164	Presentations in Russian	Z	2
	nting technical topics in Russian, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
-	nting technical topics in French, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
Preparation for preser	ting technical topics in Spanish, possibly in cooperation with specialized departments.	,	
2046137	Russian - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	riting in a simple w	ay about familia
	omprehension of simple texts. Improvement of professional language.		
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 st	tudent meets at scl	nool or in his/he
free time and speakin	g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	essional language.	
2046141	Russian - Advanced	Z	2
Comprehension of spe	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa	tion in discussions	Expressing
	. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t	echnical articles.	
	. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t Russian - Advanced	echnical articles.	2
opinions. Written skills 2046142		Z	
opinions. Written skills 2046142 Mapped to the level of	Russian - Advanced	Z topics familiar to the	e student.
opinions. Written skills 2046142 Mapped to the level of Communication with r	Russian - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on	Z topics familiar to the	e student.
opinions. Written skills 2046142 Mapped to the level of Communication with r currant issues and po	Russian - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	Z topics familiar to the	e student.
opinions. Written skills 2046142 Mapped to the level of Communication with r currant issues and po 2046140	Russian - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on lative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a pular scientific and technical articles.	Z topics familiar to the and understanding	ne student. texts concerning
opinions. Written skills 2046142 Mapped to the level of Communication with r currant issues and po 2046140 Mapped to the level of	Russian - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on attive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a pular scientific and technical articles.  Russian - Upper Intermediate	Z topics familiar to the land understanding  Z meets at work, at s	texts concerning  2 school, during
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# List of courses of this pass:

Code	Name of the course	Completion	Credits		
2011009	Mathematics III	Z,ZK	5		
	An introductory course in ordinary differential equation and infinite series.		·		
2011021	Constructive Geometry	Z,ZK	6		
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.				
2011049	Numerical Mathematics	Z,ZK	4		
Numerical solution of systems of linear equations, iterative methods. Numerical solution of nonlinear algebraic equations. Least squares method. Numerical solution of ordinary differential					
	equations, initial and boundary value problems. Numerical solution of basic linear partial differential equations by finite difference method.				

2011056 Mathematics I Z,ZK 8 In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Students will also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvectors of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions. 2011062 Matematika II. Z,ZK Open and closed set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence) and curl (rotation). Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral. Fubini theorem, Transformation of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector field, independence of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector field through a surface. The Gauss-Ostrogradskij theorem. 2012035 Algorithmization and Programming Fundamentals K7 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. 2012037 Computer Graphics 2012091 Project ΚZ 2 2013991 **Bachelor Thesis** Ζ 4 2016007 Z 2 Mathematics I. - Seminar 201A009 Mathematics III.A 7K 2 201A021 Constructive Geometry A 3 7K The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 201A056 Mathematics I.A 7K 4 Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable 201A062 Mathematics II.A 7K 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. 2021025 Physics II. Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements. Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures. 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. 2026016 Physics - Seminar The subject is mainly meant for high-school students for repetition of high-school physics. 202A025 ZK Physics II.A 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. 202A041 Physics I. 7K 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater 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 Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the 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. 2041064 Spanish - Bachelor Exam / FME Z.ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041065 Russian - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater 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. 2046068 Ζ English - Beginners Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). A1 2046069 English - Beginners Ζ 2 Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language).

2046070	English - Lower Intermediate	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
2046074	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	Z	
2046071	English - Lower Intermediate  mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s		2
	time and speaking about them. Writing in a simple way about familiar topics, reading and comprehension of simple texts. Improveme		
2046072	English - Upper Intermediate	7	2
	ا حال التعالى - كالمجالة التعالى التع		
The diff to to extend	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -	-	onvordation
2046073	English - Upper Intermediate	Z	2
	ommon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English	_	
	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia	=	
	knowledge.		
2046074	English - Advanced	Z	2
The aim: compreh	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	n and oral skills on	advanced
level. Ability to wri	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without	difficulties.
	Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English as well as lectures given in English as a discussion of Spoken English as well as lectures given in English as a discussion of Spoken English as well as lectures given in English as a discussion of Spoken English as well as lectures given in English as lectures given in English as well		
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	ision of popular-sc	ientific and
2046076		Z	2
2046076	German - Beginners abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	2
2046077	German - Beginners	7	2
	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	_	
mapped to the leve	general scientific terminology (professional language).	a add or badic oxpi	
2046078	German - Lower Intermediate Course	7	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046079	German - Lower Intermediate Course	Z	2
Mapped to the leve	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er at school
or in his/her free	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	nt of professional la	inguage.
2046080	German - Upper Intermediate Course	Z	2
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 experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046081	German - Upper Intermediate Course	Z	2
Mapped to the lev	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	es across at work,	at school,
Mapped to the level during free time, an	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com dal talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding	nes across at work,	at school, hnical texts.
Mapped to the level during free time, an 2046082	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding German - Advanced Course	nes across at work, ng general and tecl	at school, hnical texts.
Mapped to the levi during free time, an 2046082 Comprehension of	German - Upper Intermediate Course rel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding  German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	nes across at work, ng general and tecl  Z n in discussions. E	at school, hnical texts. 2 xpressing
Mapped to the level during free time, and 2046082 Comprehension of opinions. N	German - Upper Intermediate Course el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students come and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding  German - Advanced Course of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	nes across at work, ang general and tecl Z In in discussions. Exand technical article	at school, hnical texts. 2 xpressing es.
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2046096	Charles Deginners	Z	2
Allii.Onderstandii	Spanish - Beginners 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.		
2046097	Spanish - Beginners	Z	2
Mapped to the C	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	student meets at so	hool or in
his/her free tir	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	guage.
2046098	Spanish - Lower Intermediate	Z	2
Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	j in a simple way at	out familiar
00.40000	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z	2
	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
2046117	Czech -Advanced	7	2
	CZECTT - Advanced spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in dis		
	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		.g opoo.
2046118	Czech -Advanced	Z	2
	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	n ch without great diff	iculties and
active participat	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-scie	ntific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Cor	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic of	expressions
0040405	of general scientific terminology (professional language).	<b>-</b>	0
2046125	Czech Lower Intermediate    Czech Lower Intermediate	Z	2
Aim: Understandin	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	whiting in a simple	way about
2046126	Czech 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.	. – .	
7 3.143.344.14.1	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		nay about
2046127	Czech - Upper Intermediate	Z	2
1	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	nmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	-	
terminology. Cor	nprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broad	ening the
0040405	knowledge technical language.	7	
2046135	Russian - Beginners	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		
	Puggion Paginnara	7	
2046136	Russian - Beginners	Z	2
	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	Z	2
Mapped to the lev	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language)	Z and use of basic e	2 xpressions
Mapped to the lev	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	Z and use of basic e	2 xpressions
Mapped to the lev	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language)  Russian - Lower Intermediate Course	Z and use of basic e	2 xpressions
Mapped to the lev	el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language)  Russian - Lower Intermediate Course arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	Z and use of basic e	2 xpressions
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2046163	Presentations in French language  Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.	Z	2
2046164	Presentations in Russian  Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	Z	2
2046165	Presentations in Spanish	Z	2
2040103	Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	_	2
2046166	Presentations in Czech	Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department		
2131002	Engineering Design II	Z,ZK	4
	G (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface		
	, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the		
2131026	Machine Elements and Mechanisms II esign calculations and aplication of axles and shafts, sliding and rolling bearings, shaft connections, elements of crank mechanism,	ZK	3
reilitilitary design, d	and fittings.	pipelines and their	accessor
2131512	Machine Elements and Mechanisms I.	Z,ZK	6
	ments (screwed, clamped, splined, welded, riveted, soldered and adhesive joints; joints with use of feathers, pins, tenons, cotters, ki	1 '	ansmissio
(belt, chain, friction	, gear drives). Seminars are devoted to practical individual solution of simple design projects - tasks with motion screws, preloaded	d connecting bolts	, clamped,
ressed, splined and	key joints between shafts and hubs and tasks with welded and riveted joints. Sketching of machine elements and their simple asser	mbly units is also ir	ndispensal
	seminar work.		T
2133013	Engineering Design III.	Z	2
	Design of assembly unit (draft drawing, detail drawing, assembly drawing, technical report)		_
2133014	Engineering Design IV.	Z	2
2133025	Design	Z	4
	design calculations and their aplications in case of geared transmissions, axles and shafts, sliding and rolling bearings, shaft coupling the coupling state of the coupling sta		
2141504	Electric Circuits and Electronics	Z,ZK	4
	ory of electrical circuits, analysis special types of electrical circuits as DC and AC. Transient states in circuits with accumulators of		
Introduction into el	ectronics. Principle and typical parameters of basic semiconductor components. Application in electronic circuits (rectifier, stabilize	-	perationa
0444505	amplifier). Analogue and digital circuits. Principle of analogue and digital signal processing. Logical circuits, converters, micropro		1 .
2141505	Electrical machines and drives	Z,ZK	4
	rical power and energy. Calculation, measurement, power factor. Magnetic circuit, materials, hysteresis loop. Electromagnet. Trans		
•	er, operating conditions, rated (scheduled) values. Induction machine, principle, construction, operating conditions. Starting, speed		
ontrol. Synchronous	machines. DC-machines, principle, parameters, operating conditions, construction, starting, speed control, speed-torque characte	ristic. Low-voltage	instrumer
0.1.1.000	Low-voltage distribution system.		
		7 71/	_
2144062	Technical Indonesian - Course II.	Z,ZK	3
'	Basic of Indonesian Language for Student Exchange Program to Indonesia		!
2144062	Basic of Indonesian Language for Student Exchange Program to Indonesia  Indonesian Language Course for Exchange	Z,ZK	2
2146060	Basic of Indonesian Language for Student Exchange Program to Indonesia  Indonesian Language Course for Exchange  Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2
'	Basic of Indonesian Language for Student Exchange Program to Indonesia  Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia  Technical Indonesian - Course I.		!
2146060	Basic of Indonesian Language for Student Exchange Program to Indonesia  Indonesian Language Course for Exchange  Basic of Indonesian Language for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  Second part of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2146060   2146061   2152091	Basic of Indonesian Language for Student Exchange Program to Indonesia  Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  Second part of Indonesian Language for Student Exchange Program to Indonesia  Deparmental Project	Z Z KZ	2 2
2146060   2146061   2152091   2153005	Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Deparmental Project Fundamentals of Energy Conversions	Z Z KZ Z	2 2 1
2146060   2146061   2152091   2153005   2153991	Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Deparmental Project Fundamentals of Energy Conversions Bachelor Thesis	Z Z KZ Z Z	2 2 1 4
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2146060  2146061  2152091  2153005  2153991  2181026  Fundamentals of trame distributions in comme distributions i	Basic of Indonesian Language for Student Exchange Program to Indonesia Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia  Technical Indonesian - Course I.  Second part of Indonesian Language for Student Exchange Program to Indonesia  Deparmental Project  Fundamentals of Energy Conversions  Bachelor Thesis  Momentum, Mass and Heat Transfer Insport phenomena balances in homogeneous (fluids, Navier-Stokes equations, Momentum transport in turbulent flows. Mechanica portinuous systems. Conduction heat transfer, Forced and natural convection heat transfer, Heat transfer with phase changes and the systems. Mass transfer by molecular diffusion, convection, with chemical reactions and interphase mass transfer.  Chemistry  from the point of view of mechanical and process engineering, Physical chemistry forms 2/3 of the course (structure and properties chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioche oriented upon the material properties measurement.  Project  Absolvent se seznámi se základy oboru Procesní technika.  Bachelor Thesis  Bachelor Thesis  Bachelor Thesis  Mechanics I.  In the basic concepts of statics. There are described the methods of solution of equilibrium of particles and rigid bodies and their sy There are introduced the methods of description of position and motion of particles and rigid bodies.  Mechanics II.  dof rigid bodies. Transformation matrix. Kinematics of concurrent movements. Motion: translation, rotation, general planar motion, so in kinematics. Basic theory of gearing. Transmittion mechanisms with geers. Strutting and seezing in mechanisms. Cable mechanismishing and seezing in mechanisms. Cable mechanismishing seezing in mechanisms. Cable mechanismishing vibrations of systems.  Materials Science II.  allurg, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the calculations.	KZ Z Z,ZK Il energy equation. In mal radiation. Multiple of the construction of the co	2 2 1 4 5 Residence introduced in the service in th

2322091	Project	KZ	2
	e preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	1	ı
	emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment of	-	
•	knowledge or results.		
2323991	Bachelor thesis	Z	4
	Development of the bachelor thesis on an assignment under the supervision.	_	
2332091	Project	KZ	2
2333991	Bachelor Thesis	Z	4
2342091	Project	KZ	2
	Work on specialized tasks.		_
2352091	Specialization Project	KZ	2
2362091	Project	KZ	2
2363991	Bachelor Thesis	Z	4
		Z,ZK	5
2371047	Automatic Control  llers are important part of many industrial processes. The goal of this course is to introduce students into basic knowledge of automa		
	ons, open versus closed loop control, design of controllers and frequency based analysis of control systems. The course also concentra	=	-
	ile logic controllers. Some seminaries are arranged in laboratories where practical skills and control engineering methods are trained.	•	
ria programmas	MATLAB software as a common platform of control engineers.	Otaaoo Dog to	
2372041	Computer Support for Study	KZ	3
	ices students into creating technical and professional documents on computers or Web and into realizing technical computations with		_
	al skills by creating an essay in a text editor, by realizing 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		_
	instruments.		
2372091	Project	KZ	2
_000.	An individual project from the branch of specialisation, which student will study on his/her magister level		_
2373991	Bachelor Thesis	Z	4
2070001	Each student will solve his individual theme under guiding of his individual supervising department specialist. Result is his/her bach	_	
2381054	Management and Economics of the Enterprise	Z,ZK	4
	nded to teach the students of the Faculty of Mechanical Engineering the basic economic starting points necessary for technical reasoning	,	understand
	ships between economic quantities costs - revenues, expenses - incomes and other basic economic terms. The goal is for the audien	-	
with economists i	n organizations, every product or service is valued at a selling price and therefore it is necessary to understand the simple costing of	products and serv	ices. Every
technician will enc	ounter reports and should understand the basic structure of financial statements. As a future manager, he will compile and approve the	e operating budge	t. In the field
of management,	they will learn basic managerial functions and their content. Furthermore, they will learn how to use network analysis in project mana	gement. For decisi	on-making
	purposes, they will learn the applications of multi-criteria decision-making. The basics of marketing and strategic management will be	introduced.	
2383001	Fundamentals of Law	Z	2
Basic orientation i	n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provio	de a view into the C	Czech Legal
•	ources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is r	=	
•	ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws		
leads students to k	know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation	nships and to make	them ready
	to prepare professional presentations and to understand basic structures between law and engineering	_	
2383009	Communication and Dealing with People	Z	2
Human communi	cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (	with specific modif	ications) to
1/22/22	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.		
K331068	Technology I	Z,ZK	5
Foundry properties	s of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatmer		mi-products,
K333038	Fundamentals of Technology I.	Z	3
Production proces	sses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, tech	nical metals. Produ	ction of pig
iron and steel. Ca	asting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tec	hnology. Hot and c	old forging.
Free and drop f	orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of wel	ding. Fusion weldir	ng: Flame
	welding and arc welding with coated electrodes. Thermal cutting.		
K341014	Technology II.	Z,ZK	5

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-07-03, time 23:43.