Study plan

Name of study plan: 13 80 85 00 BVES EKO 2012 P 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 full-time

Required credits: 182
Elective courses credits: -1
Sum of credits in the plan: 181
Note on the plan: první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 171

The role of the block: P

Code of the group: 12B*P*P-TV

Name of the group: 07 2012 bakalářský tělocvik

Requirement credits in the group: In this group you have to gain 3 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 3

Note on the group: Letní výcvikový kurz je předmět povinný. Student jej může vykonat kdykoliv v průběhu studia,

avšak v souladu s příslušnými ustanoveními Ústavu tělesné výchovy a sportu ČVUT

Code of the group: 12B*P*P-ZT21

Name of the group: 04 2012 prezenční ZT v pořadí 21

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

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

Credits in the group: 6 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2333038	Fundamentals of Technology I.	Z	3	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12B*P*P-ZT21 Name=04 2012 prezenční ZT v pořadí 21

2333038	Fundamentals of Technology I.	Z	3
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Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging. Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame welding and arc welding with coated electrodes. Thermal cutting.

Code of the group: 12B-KMEN* VES

Name of the group: 01 2012 souhrn 12B**1P-KMEN a 12B**2P-KMEN Requirement credits in the group: In this group you have to gain 50 credits

Requirement courses in the group: In this group you have to complete 11 courses

Credits in the group: 50 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
2182019	Chemistry Radek Šulc, Martin Dostál, Vojtěch Bělohlav, Jan Skočilas, Adam Krupica, Filip Randák Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Jiří Holman, Gejza Dohnal, Marta Čertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jana Sobotová	KZ	3	2P+1L	2	Р
2012037	Computer Graphics	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2131002	Engineering Design II	Z,ZK	4	2P+3C	2	Р

Characteristics of the courses of this group of Study Plan: Code=12B-KMEN* VES Name=01 2012 souhrn 12B**1P-KMEN a 12B**2P-KMEN

2182019 | Chemistry | KZ | 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement.

2021041 | Physics I. | Z,ZK | 7

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

2011021	Constructive Geometry	Z,ZK	6
The subject is focused			
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 | 8

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

2322029 | Materials Science I. | KZ | 3 History and present state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deformation, recrystallization and

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

2012037	Computer Graphics	KZ	3			
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.

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

Code of the group: 12BVP3P

Name of the group: 08 2012 BVES 3.sem prezenční povinné

Requirement credits in the group: In this group you have to gain 31 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 31

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
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Stanislav Kračmar	Z,ZK	5	2P+2C	*	Р

2321039	Materials Science II. Jiří Cejp, Jakub Horník, Jana Sobotová, Elena Čižmárová, Eliška Galčíková, Pavlína Hájková, Jakub Horváth, Stanislav Krum, Vladimír Mára, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
2331068	Technology I.	Z,ZK	5	2P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP3P Name=08 2012 BVES 3.sem prezenční povinné

of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of eleme Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lect 2011009 Mathematics III Z,ZK 5 An introductory course in ordinary differential equation and infinite series.	Characteristics of the courses of this group of Study Plan: Code=12BVP3P Name=08 2012 BVES 3.sem prezenchi povinne								
of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of eleme Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lect 2011009 Mathematics III Z,ZK 5 An introductory course in ordinary differential equation and infinite series.	2021025	Physics II. Z,ZK 4							
Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lect 2011009 Mathematics III Z,ZK 5 An introductory course in ordinary differential equation and infinite series.	Faraday's law of electron	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction							
2011009 Mathematics III Z,ZK 5 An introductory course in ordinary differential equation and infinite series.	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							
An introductory course in ordinary differential equation and infinite series.	Spectra, x-rays, ;laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures.								
	2011009	Mathematics III Z,ZK 5							
2321039 Materials Science II 7.7K 4	An introductory course in ordinary differential equation and infinite series.								
Zijert i i zijert i zi	2321039	Materials Science II. Z,ZK 4							
Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical process									
technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.									
2331068 Technology I. Z,ZK 5	2331068	Technology I. Z,ZK 5							
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-pro									
heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.									

Code of the group: 12BVP4P

Name of the group: 09 2012 BVES 4.sem prezenční povinné

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

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

Credits in the group: 22 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2342005	Quality Control	KZ	2	1P+1C+1L	*	Р
2341014	Technology II.	Z,ZK	5	2P+0C+2L	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP4P Name=09 2012 BVES 4.sem prezenční povinné

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2342005	Quality Control	KZ	2				
Basic quality control terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statistical process control, statistical							
sampling. Tools and me	sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.						
2341014	Technology II.	Z,ZK	5				
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes,							
programming of manuf	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.						

Code of the group: 12BV*5P

Name of the group: 12 2012 BVES 5.sem povinné

Fundamentals of Law

Requirement credits in the group: In this group you have to gain 11 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 11 Note on the group:

2383001

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
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4	2P+0C+2L	*	Р
2383001	Fundamentals of Law	Z	2	1P+1C	*	Р

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

	2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4			
	Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers.						
Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines.							
	DC-machines						

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

Code of the group: 12BV*5P-EKO

Name of the group: 14 2012 BVES 5.sem zam EKO povinné

Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 18 Note on the group:

Code of the group: 12BV*6P

Name of the group: 15 2012 BVES 6.sem povinné

Requirement credits in the group: In this group you have to gain 9 credits

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

Credits in the group: 9 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2331071	Automation of Production Processes	Z,ZK	5	3P+2C	*	Р

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

2331071 Automation of Production Processes Z,ZK 5
Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation in iron and

Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation in iron and steel foundries. Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and programming of robotic welding centers. Designing and programming of automated finishing lines.

Code of the group: 12BV*6P-EKO

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

Requirement credits in the group: In this group you have to gain 21 credits

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

Credits in the group: 21 Note on the group:

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 11

The role of the block: PV

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

Name of the group: 03 2012 bakalářské povinně 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 Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV	

Characteristics of the courses of this group of Study Plan: Code=12B**1Q-HUM Name=03 2012 bakalářské povinně 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: 12BV*4Q-BZJ VES

Name of the group: 11 2012 bakalářské zkoušky z jazyků pro VES

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

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

Credits in the group: 2

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam 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 Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z,ZK	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12BV*4Q-BZJ VES Name=11 2012 bakalářské zkoušky z jazyků pro

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

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

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

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

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

Credits in the group: 5
Note on the group:

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

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

2321067 Technical Application of Materials Z,ZK 5

Předmět popisuje aplikovatelnost jednotlivých skupin inženýrských materiálů a jejich odpovídající vlastnosti. Rovněž se věnuje aktuálním vývojovým trendům těchto skupin. The subject describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.

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

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

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

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

Credits in the group: 2 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jana Sobotová	KZ	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV

2342091 0P+2C **Project**

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

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

2332091 Project K7 2 2342091 Project ΚZ Work on specialized tasks.

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

The role of the block: V

Code of the group: 12BV**V-ALFA

Name of the group: 02 2012 ALFA volitelné pro VES

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
202A041	Physics I.	ZK	3	0P+0L	*	V
201A021	Constructive Geometry A	ZK	3	0P+0C	*	V
201A056	Mathematics I.A Radka Keslerová	ZK	4	0P+0C	*	٧
201A062	Mathematics II.A Radka Keslerová	ZK	4	0P+0C	*	٧

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

202A041 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. 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.

Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable

201A062 ZK 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.

201A056

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

Mathematics I.A

Name of the group: 05 2012 doporučené semináře

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

Credits in the group: 0

Pokud si chce student své dosud získané znalosti (například z matematiky, fyziky, cizích jazyků Note on the group:

atd.) doplnit, může si zapsat některý z volitelných předmětů, které příslušné ústavy pro 1. semestr

ΖK

4

	(zimni) vypisuji. Doporucujeme zejmena predmety uvedene v teto skupine							
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role		
2026016	Physics - Seminar	Z	2	0P+2C	1	V		
2016007	Mathematics I Seminar Radka Keslerová, Luděk Beneš, Hynek Řezníček, Olga Majlingová Radka Keslerová Geiza 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 doporučené semináře

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

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

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

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

Credits in the group: 0
Note on the group:

Note on the gro						
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 Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Veronika Kratochvilová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	z	V
2046073	English - Upper Intermediate Ilona Šimice Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced 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 Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	z	V
2046089	French - Upper Intermediate Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	V
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	V

2046085	French - Beginners' Course Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Jaroslava Kommová, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046161	Presentations in English Michaela Schusová	Z	2	0P+2C	*	V
2046166	Presentations in Czech Jaroslava Kommová	Z	2	0P+2C	*	V
2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	٧
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	v

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

2046155	English Conversation	Z	2
Improving communicati	ve skills in speaking on general topics and general technical topics.		

2046156	Frantisk Osmonskins	7	
	English Conversation	Z	2
	ve skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
' '	n European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which Ind speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem		
		· ·	2
2046070	English - Lower Intermediate	Z	_
_	early 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. A1 - A2.	m. writing in a sii	mpie way about
-		Z	
2046074	English - Advanced on of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	_	2
	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie		
I	advanced level. B1 - B2.	ia oi stadies with	out difficulties.
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	_	I
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and compre		
1	ts from student's field of studies without difficulties. Grammar structures on advanced level.	nonoion or populo	
2046072	English - Upper Intermediate	Z	2
	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	_	_
	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		
2046073	English - Upper Intermediate	Z	2
Mapped to the Commi	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	glish and commo	I
terminology. Compreh-	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broa	adening gramma
knowledge.			
2046068	English - Beginners	Z	2
Aim: Basic vocabulary	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	age). A1
2046069	English - Beginners	Z	2
Mapped to the Commo	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	iding and use of b	asic expression:
of general scientific te	minology (professional language).		
2046126	Czech Lower Intermediate	Z	2
Aim: Understanding cl	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	ı em. Writing in a si	mple way about
familiar topics. Readin	and comprehension of simple texts. Improvement of professional language.		
2046125	Czech Lower Intermediate	Z	2
Aim: Understanding cl	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	∍m. Writing in a si	mple way about
familiar topics. Readin	and comprehension of simple texts. Improvement of professional language.		
2046118	Czech -Advanced	Z	2
Mapped to the level of	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C	Żzech without gre	at difficulties and
active participation in	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen	sion of popular-se	cientific and
scientific articles or tex	ts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117	Czech -Advanced	Z	2
Comprehension of spo	ken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	discussions. Exp	ressing opinions
Written skills. Ability to	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	rticles.	
2046127	Czech - Upper Intermediate	Z	2
Understanding standa	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	ty to describe exp	periences and
events, briefly explain	one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
1 '''	n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional	I Czech and comr	-
	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter		
knowledge technical la			padening the
	nguage.	mediate level. Bro	_
2046119	rguage. Czech Language for Beginners I.	mediate level. Bro	2
	nguage. Czech Language for Beginners I. gryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	mediate level. Bro	_
Basic vocabulary of every 2046120	riguage. Czech Language for Beginners I. Eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestorech Language for Beginners II.	Z sional language)	2
Basic vocabulary of every 2046120 Mapped to the Common	nguage. Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestorech Language for Beginners II. European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	Z sional language)	2
Basic vocabulary of every 2046120 Mapped to the Common of general scientific terms.	To Czech Language for Beginners I. The cryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestor Czech Language for Beginners II. The European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant minology (professional language).	Z ssional language) Z ding and use of b	2 asic expressions
Basic vocabulary of ex 2046120 Mapped to the Commo of general scientific ter 2046086	To Czech Language for Beginners I. The cryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory czech Language for Beginners II. The cryday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional scientific terminology (professional language). The cryday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course	Z ssional language) Z ding and use of b	2 asic expression:
Basic vocabulary of ex 2046120 Mapped to the Commo of general scientific ter 2046086 Understanding clearly	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory case) Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant innology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	Z ssional language) Z ding and use of b	2 asic expression:
Basic vocabulary of example 2046120 Mapped to the Common of general scientific tele 2046086 Understanding clearly topics. Reading and common science and common scien	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory of Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understantinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wrimprehension of simple texts. Improvement of professional language.	Z ssional language) Z ding and use of b Z iting in a simple w	2 pasic expression: 2 vay about familia
Basic vocabulary of example 2046120 Mapped to the Common of general scientific tele 2046086 Understanding clearly topics. Reading and common 2046087	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understantinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written and speaking about them.	Z ssional language) Z ding and use of b Z iting in a simple w	2 pasic expression: 2 vay about familia
Basic vocabulary of example of the common of general scientific terms of 2046086 Understanding clearly topics. Reading and company of the common of the common of general scientific terms of the common of general scientific terms of the common of the comm	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory of the control of the c	Z ssional language) Z ding and use of b Z riting in a simple w	2 pasic expressions 2 pay about familia 2 at school or in
Basic vocabulary of example 2046120 Mapped to the Common of general scientific teles 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and second 2046087	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory of the control of the c	Z ssional language) Z ding and use of b Z riting in a simple w	2 assic expressions 2 ayay about familia 2 at school or in nguage.
Basic vocabulary of example 2046120 Mapped to the Common of general scientific teles 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and second 2046091	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant minology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written mprehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced	Z sisional language) Z ading and use of b Z itting in a simple w Z a a student meets of professional lan Z	2 assic expressions 2 ayay about familia 2 at school or in nguage. 2
Basic vocabulary of example 2046120 Mapped to the Common of general scientific teles 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and second 2046091 Mapped to the level of happed to	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestory of the control of the c	Z ssional language) Z ading and use of b Z itting in a simple w Z a student meets of professional lan Z ppics familiar to the	2 vay about familia 2 at school or in nguage. 2 e student.
Basic vocabulary of example 2046120 Mapped to the Common of general scientific telescope 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and second 2046091 Mapped to the level of Communication with new 2046120	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestic czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wrimprehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and	Z ssional language) Z ading and use of b Z itting in a simple w Z a student meets of professional lan Z ppics familiar to the	2 vay about familia 2 at school or in nguage. 2 e student.
Basic vocabulary of example 2046120 Mapped to the Common of general scientific terms 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and some 2046091 Mapped to the level of Communication with no currant issues and poper some 2046120.	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant minology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written merchanism of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to attive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and under scientific and technical articles.	Z sisional language) Z ading and use of b Z itting in a simple w Z a student meets of professional lar Z ppics familiar to the and understanding	2 assic expressions 2 2 ayay about familia 2 at school or in nguage. 2 e student. texts concerning
Basic vocabulary of example 2046120 Mapped to the Common of general scientific teles 2046086 Understanding clearly topics. Reading and comparts and selection of the level of his/her free time and selection of Communication with numerical court of the level of the l	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestic czech Language for Beginners II. neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wrimprehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles. French - Advanced	Z ssional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lan Z ppics familiar to the and understanding	2 vay about familia 2 at school or in nguage. 2 e student. texts concerning
Basic vocabulary of example 2046120 Mapped to the Common of general scientific terms 2046086 Understanding clearly topics. Reading and compared to the level of his/her free time and some 2046091 Mapped to the level of Communication with nourrant issues and post 2046090 Comprehension of sports	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant minology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written merchanism of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to attive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	Z sisional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lar Z ppics familiar to the nd understanding Z on in discussions.	2 vay about familia 2 at school or in nguage. 2 e student. texts concerning
Basic vocabulary of ev. 2046120 Mapped to the Commo of general scientific ter. 2046086 Understanding clearly topics. Reading and co. 2046087 Mapped to the level of his/her free time and s. 2046091 Mapped to the level of Communication with n currant issues and pop. 2046090 Comprehension of spc opinions. Written skills	Czech Language for Beginners I. Arryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language for Beginners II. The European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand minology (professional language). French - Lower Intermediate Course What is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written more in the spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written in the spoken about everyday situations which are student meets at school or in his/her free time and speaking about them. Written in the student is spoken about everyday situations which are aking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and texts.	Z sisional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lan Z pics familiar to the and understanding Z on in discussions.	2 vay about familia 2 vay about familia 2 at school or in nguage. 2 e student. texts concerning 2 Expressing
Basic vocabulary of every company of every constraint of the Common of general scientific terms of general scienti	Czech Language for Beginners I. aryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess Czech Language for Beginners II. In European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written when the spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written end is spoken about everyday situations which are language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and terminal popular scientific and technical articles. French - Upper Intermediate	Z sisional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lan Z pics familiar to the nd understanding Z on in discussions. echnical articles. Z	2 vay about familia 2 at school or in nguage. 2 e student. texts concerning 2 Expressing 2
Basic vocabulary of every company of every constraint of the Common of general scientific terms of general scienti	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wrimprehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and ular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ericinal technical and understanding texts concerning currant issues and popular scientific and technical popular scientific and technical ericinal technical and understanding texts concerning currant issues and popular scientific and technical ericinal technical ericinal technical ericinal technical ericinal technical ericinal e	Z sisional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lan Z pics familiar to the and understanding Z on in discussions. echnical articles. Z comes across at w	2 vay about familia 2 vay about familia 2 at school or in nguage. 2 e student. texts concerning 2 Expressing 2 vork, at school,
Basic vocabulary of every company of every control of the Common of general scientific teres. Page 12046086 Understanding clearly topics. Reading and company	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest Czech Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandinology (professional language). French - Lower Intermediate Course what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wrimprehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which beaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of French - Advanced Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to titive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical articles. French - Advanced ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and termination of the student of	Z sisional language) Z ading and use of b Z riting in a simple w Z a student meets of professional lan Z pics familiar to the ad understanding Z on in discussions. echnical articles. Z comes across at wanding general an	2 asic expressions 2 vay about familia 2 at school or in nguage. 2 e student. texts concerning 2 Expressing 2 ork, at school, d technical texts
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2046084	French - Beginners what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. We	Z	2
	imprehension of simple texts. Improvement of professional language.	Titing in a simple w	ay about lamillar
2046085	French - Beginners' Course	Z	2
	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations whic		
	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	, 	
2146060	Indonesian Language Course for Exchange Inguage for Student Exchange Program to Indonesia	Z	2
2146061	Technical Indonesian - Course I.	Z	2
	sian Language for Student Exchange Program to Indonesia		2
2144062	Technical Indonesian - Course II.	Z,ZK	3
Basic of Indonesian La	inguage for Student Exchange Program to Indonesia		
2046078	German - Lower Intermediate Course	Z	2
	early what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking at	oout them. Writing	n a simple way
2046079	eading and comprehension of simple texts. Improvement of professional language. Cormon Lower Intermediate Course.	Z	2
	German - Lower Intermediate Course Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whi	_	_
	and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improvem		
2046083	German - Advanced Course	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given		
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comp	rehension of popul	ar-scientific and
2046082	ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course	Z	2
	Remain - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participa	_	
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t		ļ 3
2046081	German - Upper Intermediate Course	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students		
	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and underst		
2046080	German - Upper Intermediate Course dispeech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abi	Z	2
_	one's opinions and plans. Reading and understanding general and technical texts.	iity to describe exp	enences and
2046076	German - Beginners	Z	2
Basic vocabulary of ev	eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	ssional language)	t corresponds to
the Common European	n Framework of Reference for Languages A1.	_	
2046077	German - Beginners	Z	2
	ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language).	g and use of basic	expressions of
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.		_
2046166	Presentations in Czech	Z	2
Preparing students to	pive presentations in English on technical topics, with a possible co-operation with specialized departments.	<u>'</u>	'
2046162	Presentations in German	Z	2
	ting technical topics in German, possibly in cooperation with specialized departments.	7	
2046164	Presentations in Russian ting technical topics in Russian, possibly in cooperation with specialized departments.	Z	2
2046163	Presentations in French language	Z	2
	ting technical topics in French, possibly in cooperation with specialized departments.	_	_
2046165	Presentations in Spanish	Z	2
Preparation for present	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 familiar
2046138	mprehension of simple texts. Improvement of professional language. Russian - Lower Intermediate Course	Z	2
	Dussian - Lower intermediate Course Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s	1	
	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional comprehension of simple texts.		1001 01 11 1110/1101
2046141	Russian - Advanced	Z	2
	ken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa		Expressing
·	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t		
2046142	Russian - Advanced	Z	2 ne student
	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	-	
	ular scientific and technical articles.		
2046140	Russian - Upper Intermediate	Z	2
	Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student		
	bout these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and underst		
2046139	Russian - Upper Intermediate	Z	2 eriences and
_	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abi one´s opinions and plans. Reading and understanding general and technical texts.	my to describe exp	enences and
2046136	Russian - Beginners	Z	2
		_	
Mapped to the level of	Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand	ding and use of bas	ic expressions

2046135	Russian - Beginners	Z	2
Basic vocabulary of	f everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	sional language)	
2046099	Spanish - Lower Intermediate	Z	2
Mapped to the leve	l of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stu	dent meets at sch	nool or in his/her
free time and speal	king about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	ssional language.	
2046098	Spanish - Lower Intermediate	Z	2
Understanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	' 'av about familia
CG. C.G. Iding Gloc	my what is openen about every day oldadions which a stadent mosts at consol of in this morning about them. We	iting in a simple w	ay about lamilla
•	d comprehension of simple texts. Improvement of professional language.	iling in a simple w	ray about lairilla
•	d comprehension of simple texts. Improvement of professional language.	Z	2
topics. Reading and 2046096		Z	2
topics. Reading and 2046096 Aim:Understanding	d comprehension of simple texts. Improvement of professional language. Spanish - Beginners	Z	2
topics. Reading and 2046096 Aim:Understanding	d comprehension of simple texts. Improvement of professional language. Spanish - Beginners Clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the ding and comprehension of simple texts. Improvement of professional language.	Z	2
topics. Reading and 2046096 Aim:Understanding familiar topics. Rea 2046097	d comprehension of simple texts. Improvement of professional language. Spanish - Beginners clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	Z m. Writing in a sin	2 nple way about

List of courses of this pass:

An introductory course in ordinary differential equation and infinite series. 2011021 An introductory course in ordinary differential equation and infinite series. 2011056 The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 2011056 Mathematics X,ZK 6 The course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basis relationships and connections between concepts. Studential 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 eigenvector of a matrix. Taylor polyment with parametric linguit in addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvector of a matrix. Taylor polyment with parametric input in addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvector of a function. The problems of the probl	Code	Name of the course	Completion	Credits
Constructive Geometry Z,ZK 6	2011009		Z,ZK	5
The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 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. Studen ill also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas e-igenrumbers and eigenvector of a matrix. Taylor polynomial, integral as a limit function, integration of some special functions. 2011062 Matematika II. Special function of k-variables. Partial derivatives and differentiability, Gradient and directional derivative. Differential operators of victivergence and curl (rolation). Function given implicitly. Local and global (= absolute) externes of a function of more variables. Double integral, volume (etiple) integral, Fubrin theorem. Transformatic printegrals to polar, cylindrical and special particular out versa and line integral of a scalar and vector function. Flow of a vector field through a surface. The calculation of 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 calculation of 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 calculation of 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 subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 2016007		An introductory course in ordinary differential equation and infinite series.		
Again The sources, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. Student 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 eigenvector of a matrix. Taylor polynomial, integral as a limit function, integral on of some special functions. 2011062 Open and closed set, boundary in E ⁺ K. Feal function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differential operators div (divergence on cur (rotation, Function given implicitly, Local and global c absolute) servinese of a function of more variables. Double integral, volume (estiple) integral, bringeral particular of more variables. Double integral, volume (estiple) integral, bringeral personal of integrals to polar, cylindrical and spherical coordinates. A simple smooth surface and surface integral of a scalar and vector function. Circulation and Green's theorem. A potential vector (field through a surface. The Gauss-Ostrogradaligh theorem. 2012037 Computer Graphtics XZ 3 2016007 Matthematics Seminar Z 2 201A021 Constructive Geometry A The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations. 201A056 Mathematics A Mathematics A Mathematics A Mathematics A A Quen and closed set, boundary in E ⁺ K. Feal function of k-variables. Partial derivatives and differentiably. Gradient and directional derivative. Differential operators of (divergence of a function) function gives implicitly. Local and plobal (= absolute) services and integral of a scalar and vector function. Circulation and Green's theorem. A potential vector function gives implicitly. Local and plobal (= absolute) services of a function of nore variables. Double integral, volume (etiple) integral. Particular der	2011021	Constructive Geometry	Z,ZK	6
the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basis creationships and connections between concepts. Student and all allows got to know the procedures for solving problems with parametric input. In addition, students will got accordance to a matrix, Taylor polynomial, integral as a limit function, integration of some special functions. 2011062 Que nand closed set, boundary in Erk. Real function of k-variables. Partial derivatives and differentiability, Gradient and directional derivative. Differential operators div (divergence and curi (rotation), Function given implicity, Local and global (a absolute) extremes of a function of new variables. Double integral, volume (artiple) integral. Fubini theorem. Transformatic integrals to polar, cylindrical and speriarical coordinates. A simple smooth curve and line integral of a scalar and vector function. Flow of a vector field through a surface. The function general and vector function and a vector function. Flow of a vector field through a surface. The function and a vector function. Flow of a vector field through a surface. The function and a vector function. Flow of a vector field through a surface. The function and a vector function. Flow of a vector field through a surface. The function of 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 function of the path. Simple smooth surface and surface integral of the function of a vector function. Flow of a vector field through a surface. The function of the function of functions of the function of the function of functions. The subject is focused on general vector function of functions of one variable. 2011A056 Computer Graphics Computer Graphics Computer Computer Graphics		The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	
ill 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 eigenvector of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions. 2011062 Maternatika II.	2011056	Mathematics I	Z,ZK	8
On a matrix, Taylor polynomial, integral as a limit function, integration of some special functions. Z,ZK 8	In the course, great	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	is between concep	ts. Students
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2016007 Mathematics I Seminar	2012037	Computer Graphics	KZ	3
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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 difficult	lties, to take part in c	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 difficult	lties, to take part in c	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 difficu	Ities, to take part in c	discussions,
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2046068 English - Beginners	Z	2
Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology	professional langua	ge). A1
2046069 English - Beginners	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandir	g and use of basic e	expressions
of general scientific terminology (professional language).		
2046070 English - Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them	. Writing in a simple	way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046071 English - Lower Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a		
or at his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem	ent of professional la	
2046072 English - Upper Intermediate	Z	2
The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard E		onversation
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2	1	
2046073 English - Upper Intermediate	Z	2
Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Eng	ish and common pre	ofessional
terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermed	iate level. Broadenir	ng grammar
knowledge.		
2046074 English - Advanced	Z	2
The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writte		
level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without of	difficulties.
Grammar structures on advanced level. B1 - B2.		
2046075 English - Advanced	Z	2
Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En	-	
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay reading and comprehe	nsion of popular-sci	ientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046076 German - Beginners	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profession of the control of	nal language) It corr	responds to
the Common European Framework of Reference for Languages A1.		
2046077 German - Beginners	Z	2
Mapped to the level Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding a	nd use of basic expr	ressions of
general scientific terminology (professional language).		
2046078 German - Lower Intermediate Course	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking about	them. Writing in a s	simple way
about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079 German - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement		
2046080 German - Upper Intermediate Course	Z	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe 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 level of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics, that a students conductive fire standard speech about familiar topics.		
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand		
2046082 German - Advanced Course	Z	2
Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation		
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific		
2046083 German - Advanced Course	Z	2
Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in G	-	
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehensive participation in a discussion. Written and oral skills on advanced level.	ension of popular-sc	entific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084 French - Beginners	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way ab	out familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046085 French - Beginners' Course	Z	. 2
Mapped to the level of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a		
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	t of professional lan	
2046086 French - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way ab	oout familiar
topics. Reading and comprehension of simple texts. Improvement of professional language		

2046087 Mapped to the le	French - Lower Intermediate Course	7	2
	vel of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	_	
his/her free ti	me and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional la	anguage.
2046088	French - Upper Intermediate	Z	2
Understanding s	tandard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe expe	riences and
2046089	French - Upper Intermediate	Z	2
	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com		
	and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding		
2046090 Comprehension	French - Advanced n of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	Z	2
•	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046091	French - Advanced	Z	2
	level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to		
Communication w	ith native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u currant issues and popular scientific and technical articles.	nderstanding tex	ts concernir
2046096	Spanish - Beginners	Z	2
	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	1
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	Г	
2046097	Spanish - Beginners	Z	2
* *	Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s me and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046098	Spanish - Lower Intermediate	Z	2
	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way	
00.100.55	topics. Reading and comprehension of simple texts. Improvement of professional language.	_	T -
2046099	Spanish - Lower Intermediate rel of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studer	Z	2 I or in his/h
	and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
2046117	Czech -Advanced	Z	2
	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc	•	sing opinior
	ten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		
2046118	Czech -Advanced	Z	2
	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec tion in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	_	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
Basic voo	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p		
0040400			
2046120	Czech Language for Beginners II.	Z	2
		Z	2
	Czech Language for Beginners II. mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	Z	2
2046125	Czech Language for Beginners II. mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). Czech Lower Intermediate ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z g and use of basi	2 c expression 2
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	Russian - Advanced	Z	2
	of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation		
•	Vritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical article	
2046142	Russian - Advanced	. Z	2
1	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	-	
Communication wit	h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	nderstanding texts	concerning
0046455	currant issues and popular scientific and technical articles.	7	0
2046155	English Conversation	Z	2
0040450	Improving communicative skills in speaking on general topics and general technical topics.	-	0
2046156	English Conversation	Z	2
2010101	Improving communicative skills in speaking on general topics and general technical topics.		
2046161	Presentations in English	Z	2
	Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.		
2046162	Presentations in German	Z	2
	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		
2046164	Presentations in Russian	Z	2
	Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
	Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	,	•
2046166	Presentations in Czech	Z	2
	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized department	ents.	l
2131002	Engineering Design II	Z,ZK	4
Principles of ISO G	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface		al tolerance,
1	os, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their	_	
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
	ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, tl	. , .	
	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines		•
	DC-machines	•	
2144062	Technical Indonesian - Course II.	Z,ZK	3
2111002	Basic of Indonesian Language for Student Exchange Program to Indonesia	_,,	·
2146060	Indonesian Language Course for Exchange	Z	2
2110000	Basic of Indonesian Language for Student Exchange Program to Indonesia	- 1	_
2146061	Technical Indonesian - Course I.	Z	2
2140001	Second part of Indonesian Language for Student Exchange Program to Indonesia	_	
2182019	Chemistry	KZ	3
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		_
	i, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biocher		-
priase equilibrium	oriented upon the material properties measurement.	mon y. Laboratory p	practice is
2321039	Materials Science II.	Z,ZK	4
	etallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and th		
T diladillolitalo ol li	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materia	onno moonamoa	
2321067		als	p. coccog,
	Technical Application of Materials		
	Technical Application of Materials	Z,ZK	5
descri	plikovatelnost jednotlivých skupin inženýrských materiálů a jejich odpovídající vlastnosti. Rovněž se věnuje aktuálním vývojovým trenc	Z,ZK dům těchto skupin.	5
	plikovatelnost jednotlivých skupin inženýrských materiálů a jejich odpovídající vlastnosti. Rovněž se věnuje aktuálním vývojovým trenc pes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	Z,ZK dům těchto skupin. materials as well.	5 The subject
2322029	plikovatelnost jednotlivých skupin inženýrských materiálů a jejich odpovídající vlastnosti. Rovněž se věnuje aktuálním vývojovým trendo poes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these Materials Science I.	Z,ZK dům těchto skupin. materials as well. KZ	5 The subject
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2322029 History and prese fracture of mate 2322091	plikovatelnost jednotlivých skupin inženýrských materiálů a jejich odpovídající vlastnosti. Rovněž se věnuje aktuálním vývojovým trendoes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials Science I. Internal structure of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor rials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, in Project	Z,ZK dům těchto skupin. materials as well. KZ mation, recrystalliz on-carbon phase d	5 The subject 3 zation and diagram. 2
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2342005	Quality Control	KZ	2
Basic quality contr	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statist	ical process contro	l, statistical
sar	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ontrol systems.	
2342091	Project	KZ	2
	Work on specialized tasks.	•	'
2372041	Computer Support for Study	KZ	3
The course introdu	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	he use of compute	rs. Students
gain practic	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical	cal-based WWW p	age.
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 provid	e a view into the C	zech Legal
Order, particular se	ources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n	ecessary for stude	nts to know
our legal institution	ns, 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 t	the course
leads students to k	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation	ships 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 communic	ation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (with specific modifi	cations) to
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.		

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