## Study plan

# Name of study plan: 19 86 90 00 BVES OBR 2012 K základ

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Welcome page Type of study: unknown combined Required credits: 178 Elective courses credits: 0 Sum of credits in the plan: 178 Note on the plan: první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 167 The role of the block: P

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:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	<b>Chemistry</b> Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas <b>Radek Šulc</b> Radek Šulc (Gar.)	KZ	3	2P+1C	1	Ρ
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Ρ
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Ρ
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková <b>Jana Sobotová</b> Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Ρ
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr, František Lopot, Roman Uhlí <b>Karel Petr</b> Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Ρ

#### 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 properti	es of matter, therr	nodynamics,				
phase equilibrium, cher	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborato	ry practice is				
oriented upon the mate	oriented upon the material properties measurement.						
2021041	Physics I.	Z,ZK	7				
Kinematics and dynami	s of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of bod	lies. Oscillations,				
waves. Fluid mechanics	. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semicor	nductors,				
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	lirect measureme	nts, regression,				
measurements of 11 va	rious experiments related to the lectures.						
2011021	Constructive Geometry	Z,ZK	6				
The subject is focused of	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.						

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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 connectic	ons between co	ncepts. 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 a	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	I, Fubini theoren	n. Transformation					
of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree	en'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	or 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, defor	mation, recrysta	allization and					
fracture of materials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iron	n-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	n the use of com	puters. Students					
gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-ba	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	n lectures.					

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

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

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

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

Credits in the group: 6

#### Note on the group:

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

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

K333038Fundamentals of Technology I.Z3Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pigiron 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: Flamewelding and arc welding with coated electrodes. Thermal cutting.

## Code of the group: 12BVK3P

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

Requirement credits in the group: In this group you have to gain 30 credits

#### Requirement courses in the group: In this group you have to complete 6 courses

#### Credits in the group: 30

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 Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Ρ
2321039	Materials Science II. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Ρ
K331068	Technology I	Z,ZK	5	16B	*	Р

#### Characteristics of the courses of this group of Study Plan: Code=12BVK3P Name=08 2012 BVES 3.sem kombi povinné

2024025		7 71/					
2021025	Physics II.	Z,ZK	4				
Faraday's law of electro	Faraday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction						
of radiation with matter	of radiation with matter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements.						
Spectra, x-rays, ;laser.	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments relate	d to the lectures.				
2011009	Mathematics III	Z,ZK	5				
An introductory course	n introductory course in ordinary differential equation and infinite series.						

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 processing						
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.					
K331068	Technology I	Z,ZK	5			
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,						
heating-up, Cutting, Col	d and hot forming. Welds, Weldability, Weldment testing, Thermal cutting, Brasing, Surface treatment,					

## Code of the group: 12BVK4P Name of the group: 09 2012 BVES 4.sem kombi 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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester members) Tutors, authors and guarantors (gar.) 2342005 ΚZ 2 1P+1C+1L **Quality Control** K341014 Z.ZK 5 8KP+8KC Technology II.

#### Characteristics of the courses of this group of Study Plan: Code=12BVK4P Name=09 2012 BVES 4.sem kombi povinné

2342005	Quality Control	KZ	2
Basic quality control ter	ms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: sta	tistical process co	ontrol, statistical
sampling. Tools and me	thods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control syster	ns.	
K341014	Technology II.	Z,ZK	5

Role

Р

Р

## Code of the group: 12BV\*5P

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

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

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

## Credits in the group: 11

## Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2141204	Introduction to Electrical Engineering for Technology Jan Chyský, Lubomír Musálek, Martin Novák Lubomír Musálek Jan Chyský (Gar.)	Z,ZK	4	2P+0C+2L	*	Ρ
2383001	Fundamentals of Law Václav Pilík Václav Pilík (Gar.)	Z	2	1P+1C	*	Р

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

2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4				
Elements of electrical c	rcuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistor	s, thyristors,opera	tion amplifiers.				
Analogue and digital cir	nalogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines.						
DC-machines							
2383001	Fundamentals of Law	Z	2				
Basic orientation in lega	al system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to pro	ovide a view into t	the Czech Legal				
Order, particular source	es of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It	is necessary for s	tudents to know				
our legal institutions, the	at will be regularly in touch with, especially during their professional career and to learn how to work with the collection of law	vs. At the same tir	ne 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 rela	ationships and to r	nake them ready				
to prepare professional	presentations and to understand basic structures between law and engineering						

## Code of the group: 12BV\*5P-OBR

Name of the group: 14 2012 BVES 5.sem zam OBR povinné Requirement credits in the group: In this group you have to gain 17 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 17 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2342032	Automation of machine tool programming	KZ	3	1P+2C	*	Р
2341515	Manufacturing process planning	Z,ZK	4	2P+2C	*	Р
2341001	Metrology	Z,ZK	5	2P+0C+2L	*	Р

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

2342032	Automation of machine tool programming	KZ	3
Utilizations of comp	ter technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC machine tool.	1	•
2341515	Manufacturing process planning	Z,ZK	4
Objective of the cou	se in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and m	ethodology of des	igning machining
processes with rega	rd to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the	designing of asse	embly processes
with respect to tech	nical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard	to the type of proc	ess and the type
of performed activity			
2341001	Metrology	Z,ZK	5
Metrology, intergrati	n into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and	secondary standai	rts. Measurement
in 1, 2, end 3 coord	nates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct	cture - roughness,	wawiness.
Measurement autor	natisation.		

## 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 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 outomated forging cells. Design of automated finishing lines.

## Code of the group: 12BV\*6P-OBR

## Name of the group: 16 2012 BVES 6.sem zam OBR 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
2343993	Bachelor thesis	Z	5	0P+6C	*	Р
2341002	Cutting tools	Z,ZK	4	2P+1C	*	Р
2341068	Special machining technology	Z,ZK	5	3P+2C	*	Р

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

2343993 Bachelor thesis	Z	5						
Sources of information in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Principles of research and work								
in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a thesis.								
2341002 Cutting tools	Z,ZK	4						
Cutting tools characteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determinat	on and measurement.	Cutting tools						
elements design. Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning to	ols, milling tools, etc.).	Special cutting						
tools. Grinding, use and maintenance of cutting tools.								
2341068 Special machining technology	Z,ZK	5						
Development of cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machin	ng, engineering econo	mics and						
ecology.Influence of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of o	eramics, grinding diffic	ult-materials.						
Expert, adaptive and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear thread	ng, finishing methods.	Technology in						
the aerospace industries, automotive, energy and other areas.								

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

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

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

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

	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, Vladimír Brdek Jan Horejc Jan Horejc (Gar.)	Z	2	1P+1C	*	PV

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

 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 bakalá ské zkoušky z jazyk pro VES

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 10) Requirement courses in the group: In this group you have to complete at least 1 course (at most 5) Credits in the group: 2

## Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2041061	English-Bachelor Exam Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice (Gar.)	Z,ZK	2	0P+2C	*	PV
2041063	French - Bachelor Exam /FME Michaela Schusová, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041062	German - Bachelor Exam / FME Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z,ZK	2	0P+2C	*	PV
2041065	Russian - Bachelor Exam / FME Michaela Schusová, Hana Volejníková, Dušana Jirovská Eliška Vítková Dušana Jirovská (Gar.)	Z,ZK	2	0P+2C	*	PV
2041064	Spanish - Bachelor Exam / FME Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z,ZK	2	0P+2C	*	PV

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

120			
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Common	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	art in discussions,
to write a summary, a re	sport and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
Mapped to the Common	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	art in discussions,
to write a summary, a re	eport and an essay, to read technical texts, to master grammar at advanced level.		
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Common	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary, a re	sport and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Common	European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary, a re	sport 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 diff	iculties, to take pa	rt in discussions,
to write a summary, a re	eport and an essay, to read technical texts, to master grammar at advanced level.		

## 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:

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

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

2321067 Technical Application of Materials

Z,ZK 5

P edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.

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

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

Requirement credits in the group: In this group you have to gain at least 2 credits (at most 8) Requirement courses in the group: In this group you have to complete at least 1 course (at most 4) Credits in the group: 2

Note on the 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, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	ΚZ	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV

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

2322091	Project	KZ	2						
On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature									
with particular emphase	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	KZ	2						
2342091 Project KZ 2									
Work on specialized ta	isks.								

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

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

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

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

 202A041
 Physics I.
 ZK
 3

 Kinematics and 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 va	rious experiments related to the lectures.					
201A021	Constructive Geometry A	ZK	3			
The subject is focused	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.					
201A056	Mathematics I.A	ZK	4			
Introduction to linear al	, gebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable					
201A062	Mathematics II.A	ZK	4			
Open and closed set, b	oundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differe	ential operators div	v (divergence)			
and our (retation) Fund	e subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.          1A056       Mathematics I.A         oduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable					

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.

## Code of the group: 12B\*\*1V-DOP SEMI Name of the group: 05 2012 doporu ené seminá e Requirement credits in the group: Requirement courses in the group:

## Credits in the group: 0

Note on the group:

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

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

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

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

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

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

Requirement credits in the group:

#### Requirement courses in the group:

#### Credits in the group: 0

Note on the group:

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

2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	v
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	v
2046117	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	Z	v
2046127	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046128	Czech - Upper Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046119	Czech Language for Beginners I. Jaroslava Kommová	Z	2	0P+2C	Z	V
2046120	Czech Language for Beginners II. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská <b>Dušana Jirovská</b> Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046085	French - Beginners´ Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V

2046166	Presentations in Czech Jaroslava Kommová	Z	2	0P+2C	*	V
2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	V
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vítková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	<b>Spanish - Lower Intermediate</b> Michaela Schusová, Jaime Andrés Villagómez <b>Eliška Vítková</b> Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V

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

2046155	English Conversation	Z	2
Improving communication	ve skills in speaking on general topics and general technical topics.		
2046156	English Conversation	Z	2
Improving communication	e skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Common	European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school
or at his/her free time a	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvement	ent of professiona	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sir	nple way about
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehensio	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writt	en and oral skills	on advanced
	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fiel	d of studies with	out difficulties.
Grammar structures on	advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Common	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	nglish without gre	eat difficulties
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre-	ension of popula	r-scientific and
scientific articles or text	s from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072	English - Upper Intermediate	Z	2
The aim is to extend lan	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	English speech a	and conversation
about topics of everyda	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		
2046073	English - Upper Intermediate	Z	2
Mapped to the Common	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Eng	glish and commo	n professional
terminology. Compreher	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	ediate level. Broa	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
Aim: Basic vocabulary of	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (pi	ofessional langua	age). A1
2046069	English - Beginners	Z	2
Mapped to the Commor	European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	ding and use of b	asic expressions
of general scientific terr	ninology (professional language).		

2046126 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	1 1	_
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	0	. ,
2046125 Czech Lower Intermediate	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about t	1 – 1	_
familiar topics. Reading 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	· · ·	
active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compreh	-	
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046117 Czech -Advanced	Z	2
Comprehension of spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation	1 – 1	_
Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical	-	cooling opinions.
	Z	2
2046127 Czech - Upper Intermediate Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Al		
	mity to describe exp	enences and
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	7	0
2046128 Czech - Upper Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration profession		
terminology. Comprehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on int knowledge technical language.	ermediale level. Bro	adening the
2046119 Czech Language for Beginners I.	Z	2
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (prof		
2046120 Czech Language for Beginners II.	Z	2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Underst	anding and use of ba	asic expressions
of general scientific terminology (professional language).		
2046086 French - Lower Intermediate Course	Z	2
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Vriting in a simple w	ay about familiar
topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087 French - Lower Intermediate Course	Z	2
Mapped to the level of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations whi	ch a student meets	at school or in
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	t of professional lan	guage.
2046091 French - Advanced	Z	2
Mapped to the level of common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on	topics familiar to the	student.
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading	-	
currant issues and popular scientific and technical articles.	-	-
2046090 French - Advanced	7	2
Comprehension of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participa	ion in discussions.	Expressing
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and	technical articles.	
2046089 French - Upper Intermediate	Z	2
Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students	1 1	
during free time, and talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and under		
2046088 French - Upper Intermediate	Z	2
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Al	1 1	
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	inty to describe exp	
	Z	2
2046084 French - Beginners		
Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. It topics. Reading and comprehension of simple texts. Improvement of professional language.	vinuing in a simple w	ay about lamiliar
	7	0
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 whi		
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2146060 Indonesian Language Course for Exchange	Z	2
Basic of Indonesian Language for Student Exchange Program to Indonesia		
2146061 Technical Indonesian - Course I.	Z	2
Second part of Indonesian Language for Student Exchange Program to Indonesia		
2144062 Technical Indonesian - Course II.	Z,ZK	3
Basic of Indonesian Language for Student Exchange Program to Indonesia		
2046078 German - Lower Intermediate Course	Z	2
Aim: Understanding clearly what is spoken about everyday situations which a student meets in the company or in his/her free time and speaking a		
about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	1 – 1	n a simple way
	1 – 1	n a simple way
2046079 German - Lower Intermediate Course	1 – 1	n a simple way
2046079 German - Lower Intermediate Course Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations wi	bout them. Writing i	2
	bout them. Writing i	2 either at school
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whether the second sec	bout them. Writing i	2 either at school
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations who or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver	bout them. Writing i	2 either at school language. 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whor in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course	bout them. Writing i	2 either at school language. 2 great difficulties
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whor in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083         German - Advanced Course         Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given	bout them. Writing i	2 either at school language. 2 great difficulties
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083 German - Advanced Course Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compare scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083         German - Advanced Course         Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehesion external student's field of studies without difficulties. Grammar structures on advanced level.         2046082       German - Advanced Course	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083         German - Advanced Course         Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course         2046082       German - Advanced Course         2046082       German - Advanced Course         Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation of spoken language as well as lectures in German on topics familiar to the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations with or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083         German - Advanced Course         Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course         2046082       German - Advanced Course         2046082       German - Advanced Course         Comprehension of spoken I anguage as well as lectures in German on topics familiar to the student. Communication with native speakers, participa opinions. Written skills, Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and understanding texts concerning currant issues and popular scientific and the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2 Expressing
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations will or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver 2046083         German - Advanced Course         Mapped to the level of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures giver and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of spoken German - Advanced Course         2046082       German - Advanced Course         2046082       German - Advanced Course         Comprehension of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation of spoken language as well as lectures in German on topics familiar to the student.	bout them. Writing i	2 either at school language. 2 great difficulties ar-scientific and 2 Expressing 2

0040000		7	2
2046080	German - Upper Intermediate Course		_
-	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	inty to describe exp	enences and
	one's opinions and plans. Reading and understanding general and technical texts.	7	0
2046076	German - Beginners	Z	2
-	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	essional language)	t corresponds to
	an Framework of Reference for Languages A1.		
2046077	German - Beginners	Z	2
Mapped to the level 0	common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expressions of
general scientific terr	ninology (professional language).		
2046161	Presentations in English	Z	2
Preparing students to	present in English on technical topics, with a possible co-operation with specialized departments.		
2046166	Presentations in Czech	Z	2
Preparing students to	give presentations in English on technical topics, with a possible co-operation with specialized departments.	1	
2046162	Presentations in German	Z	2
	nting technical topics in German, possibly in cooperation with specialized departments.		-
2046164	Presentations in Russian	Z	2
			2
	nting technical topics in Russian, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
	nting technical topics in French, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
Preparation for prese	nting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046137	Russian - Lower Intermediate Course	Z	2
Understanding clearly	, what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	/riting in a simple w	ay about familia
topics. Reading and o	omprehension of simple texts. Improvement of professional language.		-
2046138	Russian - Lower Intermediate Course	Z	2
	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s		
	g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of prof		
		ooolonian languago.	
	Russian Advanced	7	2
2046141	Russian - Advanced	Z	2 Expressing
Comprehension of sp	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participa		
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# List of courses of this pass:

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

2011056	Mathematica	7 74	I 0
n the course, great	Mathematics I ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections	Z,ZK between conce	8 pts. Student
-	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eig of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		-
2011062	Matematika II.	Z.ZK	8
1	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia	,	-
	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F		0
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
201A056	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation Mathematics I.A	IS. ZK	4
	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
-	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differentia		-
. ,	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, F		
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
tield, independenc	ce of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	tield through a s	surface. The
	Gauss-Ostrogradskij theorem.		
2021025	Physics II.	Z,ZK	4
-	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves.	-	
	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and p		
	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experi		
2021041	Physics I.	Z,ZK	7
-	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prop		
	achanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Con		
nsulators. Magneti	c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect	t measurements	, regressic
1	measurements of 11 various experiments related to the lectures.		
2026016	Physics - Seminar	Z	2
	The subject is mainly meant for high-school students for repetition of high-school physics.		
202A041	Physics I.	ZK	3
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waves. Fluid me nsulators. Magneti 2041061 Apped to the Com 2041062 Apped to the Com 2041063 Apped to the Com 2041064 Apped to the Com 2041065 Apped to the Com 2046068 Aim: Basic voca 2046069 Apped to the Com 2046070 Aim: Understanding 2046071 Mapped to the Cor or at his/her free 2046072 he aim is to extend	schanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Con c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirec measurements of 11 various experiments related to the lectures. English-Bachelor Exam mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficultie to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. French - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficultie to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. French - Bachelor Exam /FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficultie to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Spanish - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficultie to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Russian - Bachelor Exam / FME mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficultie to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. English - Beginners mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language). English - Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her fre time and speaking about the	ductors, semico t measurements Z,ZK es, to take part in Z,ZK es, to take part in Z udent meets eith t of professional Z lish speech and B1.	nductors, , regression 2 discus
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2046074	English - Advanced	Z	2
	sion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and or		
evel. Addity to write a	summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studie Grammar structures on advanced level. B1 - B2.	es without o	annculties
0040075		7	0
2046075	English - Advanced	Z	2
	ton European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English with	-	
nu active participation	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	populai-sci	ienunc ai
2046076		Z	2
2046076	German - Beginners	- 1	2
asic vocabulary of eve	the Common European Framework of Reference for Languages A1.	lage) it con	responds
2046077	German - Beginners	7	2
1	ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding and use of	- 1	
	general scientific terminology (professional language).		100010110
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 about them. V	- 1	
in. Onderstanding cit	about familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	vinung in a .	simple w
2046079	German - Lower Intermediate Course	Z	2
I	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student		
	e and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improvement of pro		
2046080	German - Upper Intermediate Course	7	2
	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to desc	rihe evperiu	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	ovherig	511003 dl
2046081	German - Upper Intermediate Course	Z	2
	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes acro	_	
	Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding gene		
2046082	German - Advanced Course	Z	2
	poken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation in disc	_	
	ten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tech		
2046083	German - Advanced Course	7	2
1	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in German w	vithout area	
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension of	-	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084	French - Beginners	7	2
nderstanding clearly v	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 sin topics. Reading and comprehension of simple texts. Improvement of professional language.	nple way ab	oout fami
2046085	French - Beginners' Course	Z	2
	f Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a student	_	
his/her free time ar	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe	essional lan	iguage.
2046086	French - Lower Intermediate Course	Z	2
nderstanding clearly v	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 sin	nple way at	oout fami
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	f Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a student	_	
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
2046088	French - Upper Intermediate	Z	2
I	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to desc	- 1	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046089	French - Upper Intermediate	Z	2
	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students comes acro		
	alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding gene		
2046090	French - Advanced	7	2
	poken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation in disc	ussions Ex	
-	ten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tech		
2046091	French - Advanced	Z	2
	I of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on topics far	_	
	ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and understa		
	currant issues and popular scientific and technical articles.	3	
2046096	Spanish - Beginners	Z	2
1	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing		
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046097	Spanish - Beginners	Z	2
	non European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student r	- 1	
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		
	Spanish - Lower Intermediate	Z	2
2046098	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 sin	- 1	
2046098   nderstanding clearly v			
1	topics. Reading and comprehension of simple texts. Improvement of professional language.		
nderstanding clearly v	topics. Reading and comprehension of simple texts. Improvement of professional language.	7	2
2046099	topics. Reading and comprehension of simple texts. Improvement of professional language. Spanish - Lower Intermediate Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a student meets	Z	2 or in his/

20/16/11/	Czech -Advanced	Z	2
2046117	oken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc	_	
Written	skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	echnical articles.	
2046118	Czech -Advanced	Z	2
lapped to the level o	f Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	h without great o	difficulties a
active participation	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	ion of popular-so	ientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
Basic vocabu	lary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	
2046120	Czech Language for Beginners II.	7	2
	on European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	- and use of basi	1
	of general scientific terminology (professional language).		0 070100010
2046125	Czech Lower Intermediate	7	2
1		_	1
am: Understanding o	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	whung in a simp	ne way abc
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	-	
2046126	Czech Lower Intermediate	Z	2
im: Understanding o	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 simp	ole way abo
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Jnderstanding stan	dard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe expe	riences ar
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
	on European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	ech and commor	
	ehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm		-
	knowledge technical language.		J
2046135	Russian - Beginners	7	2
	lary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	
		-	
2046136	Russian - Beginners	Z	2
lapped to the level of	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic	expression
	of general scientific terminology (professional language)		
2046137	Russian - Lower Intermediate Course	Z	2
nderstanding clearly	v 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 fam
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046138	Dussian I such Interne dista Course		
2040130	Russian - Lower Intermediate Course	Z	2
		_	_
apped to the level o	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer	nt meets at schoo	ol or in his/
apped to the level o free time and	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	nt meets at schoo professional lang	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate	nt meets at schoo professional lang Z	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	nt meets at schoo professional lang Z	ol or in his/ uage.
apped to the level o free time and 2046139	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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.	nt meets at schoo professional lang Z to describe expe	ol or in his/ uage. 2 priences ar
apped to the level o free time and 2046139 Understanding stand 2046140	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate	t meets at schoo professional lang Z to describe expe	ol or in his/ uage. 2 priences ar
apped to the level o free time and 2046139 J Jnderstanding stand 2046140 J Apped to the level	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	t meets at schoo rofessional lang Z to describe expe Z ets at work, at sc	eriences ar
apped to the level o free time and 2046139 J Jnderstanding stand 2046140 J Mapped to the level se time, and talking	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studer speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p Russian - Upper Intermediate dard 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. Russian - Upper Intermediate of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me about these topics. Ability to describe experiences and events, briefly explain one 's opinions and plans. Reading and understanding	t meets at schoo professional lang Z to describe expe Z ets at work, at so ng general and te	ol or in his/ uage. 2 eriences ar 2 chool, durii
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2141204 Elements of electrical			1
Elements of electrical	Introduction to Electrical Engineering for Technology	Z,ZK	4
	circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, the		-
Analogue and digi	tal circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. DC-machines	Synchronous m	achines.
2144062	Technical Indonesian - Course II.	7 71/	2
2144062	Basic of Indonesian Language for Student Exchange Program to Indonesia	Z,ZK	3
2146060		7	2
2146060	Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2146061		Z	2
2146061	Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia	Z	2
2122010		KZ	3
2182019	Chemistry of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of the course (structure and properties)		-
=	emical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochem		-
phase equilibrium, or	oriented upon the material properties measurement.	lion y. Euseratory	
2321039	Materials Science II.	Z.ZK	4
I	lurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and the	,	I processing
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materia		
2321067	Technical Application of Materials	Z,ZK	5
P edm t popisuje aplik	ovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend	m t chto skupin	The subject
describes	applicability of specific engineering material types and their characteristics. It deals with the current development trends in these n	naterials as well.	
2322029	Materials Science I.	KZ	3
History and present s	tate of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, deform	nation, recrystall	ization and
fracture of material	s, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, iro	n-carbon phase	diagram.
2322091	Project	KZ	2
	iminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and ev	-	
with particular emph	asis 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.		
2331071	Automation of Production Processes	Z,ZK	5
	choological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization		
steel loundries. Auton	nation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Des robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.	signing and prog	ramining or
2332091	Project	KZ	2
	· · · · · · · · · · · · · · · · · · ·	Z,ZK	5
2341001	Metrology nto quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secon		
	nates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structul	-	
11 1, 2, 614 0 00014	Measurement automatisation.	re roughness, i	wawiness.
2341002	Cutting tools	Z,ZK	4
	eristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination and r	,	
•	ing tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, milling		
-	tools. Grinding, use and maintenance of cutting tools.		-
0044000			
2341068	Special machining technology	Z,ZK	5
	special machining technology ting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, en		
Development of cut		gineering econo	mics and
Development of cut ecology.Influence of :	ting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, en surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics, intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finish	gineering econo grinding difficult	mics and materials.
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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.			
K331068	Technology I	Z,ZK	5
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,			
heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.			
K333038	Fundamentals of Technology I.	Z	3
Production processes in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technical metals. Production of pig			
iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging.			
Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame			
welding and arc welding with coated electrodes. Thermal cutting.			
K341014	Technology II.	Z,ZK	5

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-20, time 08:59.