Study plan

Name of study plan: 15 80 85 00 DVES OBR 2012 P

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: 115
Elective courses credits: 66
Sum of credits in the plan: 181
Note on the plan: SP12DVES-MUSTR # SP12BVES-EKO-P # první pokus

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 106 The role of the block: P

Code of the group: 12BVP4P Name of the group: 09 2012 BVES 4.sem prezen ní 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 prezen ní povinné

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 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 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

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

2141204Introduction to Electrical Engineering for TechnologyZ,ZK4Elements 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

2383001 Fundamentals of Law

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

7

2

5

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 computer technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC machine tool.					
2341515	Manufacturing process planning	Z,ZK	4		
Objective of the course in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and methodology of designing machining					

processes with regard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the designing of assembly processes with respect to technical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the type of process and the type of performed activity

2341001 Metrology

Z,ZK Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measurement in 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness. Measurement automatisation.

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

Automation of Production Processes 2331071 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 workstations for sheet metal forming. Design of automated 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 ОВК ро	vinne			
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						
in laboratories. The prin	ciples 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 characteris	stics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination an	d measurement.	Cutting tools			
elements design. Cuttin	g tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, m	nilling 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 machining, e	ngineering econo	mics and			
ecology.Influence of sur	face layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of cerami	ics, grinding difficu	ult-materials.			
Expert, adaptive and int	elligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, fi	nishing methods.	Technology in			
the aerospace industrie	s, automotive, energy and other areas.					
Code of the gr	oup: 12DVP1P-KMEN					

Name of the group: 00 2012 D kmenové 1. semestr VES prezen ní Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

12B**1P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	КZ	3	2P+1C	1	Ρ
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
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12DVP1P-KMEN Name=00 2012 D kmenové 1. semestr VES prezen ní

2182019	Chemistry	KZ	3					
General chemistry from	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, cher	nical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch	emistry. Laborator	ry practice is					
oriented upon the mate	rial properties measurement.							
2011021	Constructive Geometry	Z,ZK	6					
The subject is focused	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.							
2011056	Mathematics I	Z,ZK	8					
In the course, greater e	mphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	tions between cor	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 area	s: eigennumbers a	and eigenvectors					
of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.								
2372041	Computer Support for Study	KZ	3					
The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with the use of computers. Students								
gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.								

Code of the group: 12DVP2P-KMEN

Name of the group: 00 2012 D kmenové 2. semestr VES prezen ní Requirement credits in the group: In this group you have to gain 25 credits Requirement courses in the group: In this group you have to complete 5 courses Credits in the group: 25 Note on the group: 12B**2P-KMEN #

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 Role members) Tutors, authors and guarantors (gar.) 2021041 Z,ZK 4P+1L * 7 Physics I. Ρ Matematika II. * 4P+4C 2011062 Z.ZK 8 Р Radka Keslerová

2322029	Materials Science I. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)	KZ	3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	ΚZ	3	1P+1C	*	Р
2333017	Surface Treatment	Z	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr, František Lopot, Roman Uhlí Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2333038	Fundamentals of Technology I.	Z	3	1P+1C	*	Р
insulators. Magnetic field.	emperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, cur Magnetic materials. Laboratories - accuracy of measurements, systematic and random er					
2011062 N Open and closed set, bour	us experiments related to the lectures. Iatematika II. ndary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient			Differential op		. .
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindr field, independence of a lin	Adematika II. Indary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient in given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and va- ne integral on the path. Simple smooth surface and surface integral of a scalar function ar	ble integral, volu ector function. C	me (=triple	Differential op) integral, Fubi and Green's th	erators div (ni theorem. eorem. A po	(divergence) Transformation otential vector
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindri field, independence of a lin Gauss-Ostrogradskij theori 2322029 N History and present state of	Adematika II. Indary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient in given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and ver- the integral on the path. Simple smooth surface and surface integral of a scalar function ar em. Interials Science I. of materials engineering, overview of technical materials, internal structure of metals, cryst	ble integral, volu ector function. C ad a vector funct	me (=triple irculation a ion. Flow o	Differential op) integral, Fubi Ind Green's th f a vector field	erators div (ni theorem. eorem. A po I through a s KZ n, recrystalli	(divergence) Transformation otential vector surface. The 3 ization and
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindri field, independence of a lin Gauss-Ostrogradskij theor 2322029 History and present state of fracture of materials, struct	Internatika II. ndary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient n given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and variables integral on the path. Simple smooth surface and surface integral of a scalar function ar ne Internals Science I. of materials engineering, overview of technical materials, internal structure of metals, cryst ture and properties of materials and their testing, fundamentals of thermodynamics, phase	ble integral, volu ector function. C ad a vector funct	me (=triple irculation a ion. Flow o	Differential op) integral, Fubi and Green's th f a vector field ts, deformation ons, iron-carb	erators div (ni theorem. eorem. A po I through a s KZ n, recrystalli on phase di	(divergence) Transformation otential vector surface. The 3 ization and agram.
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindri field, independence of a lin Gauss-Ostrogradskij theor 2322029 History and present state of fracture of materials, struct 20112037 C	Adamatika II. Indary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient in given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and ver- the integral on the path. Simple smooth surface and surface integral of a scalar function ar em. Materials Science I. of materials engineering, overview of technical materials, internal structure of metals, cryst	ble integral, volu ector function. C ad a vector funct	me (=triple irculation a ion. Flow o	Differential opu) integral, Fubi Ind Green's th f a vector field ts, deformation ons, iron-carb	erators div (ni theorem. eorem. A po I through a s KZ n, recrystalli	(divergence) Transformation otential vector surface. The 3 ization and
2011062NOpen and closed set, bourand curl (rotation). Functionof integrals to polar, cylindrfield, independence of a linGauss-Ostrogradskij theor2322029NHistory and present state offracture of materials, struct2012037C2333017SIntroduction to the surface	Adversatika II. Indary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient is given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and ve the integral on the path. Simple smooth surface and surface integral of a scalar function ar em. Materials Science I. of materials engineering, overview of technical materials, internal structure of metals, crys- ture and properties of materials and their testing, fundamentals of thermodynamics, phase computer Graphics Surface Treatment treatments - branch signification and objects. Principles of corrosion, types and corrosior orrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings,	ble integral, volu ector function. C d a vector funct stal lattices and es and phase tr distribution. An	me (=triple irculation a ion. Flow o their defect ansformati ticorrosive	Differential opu) integral, Fubi and Green's th f a vector field ts, deformation ons, iron-carbo	erators div (ni theorem. A po d through a s KZ n, recrystalli on phase di KZ Z manufacturi	(divergence) Transformation otential vector surface. The 3 ization and agram. 3 ing, method
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindri field, independence of a lin Gauss-Ostrogradskij theori 2322029 History and present state of fracture of materials, struct 2012037 C 2333017 S Introduction to the surface anticorrosive prevention. C aspects of surface treatme 2131002 E Principles of ISO GPS (Ge Principles of ISO GPS (Ge	Adversatika II. Indary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient is given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and ve the integral on the path. Simple smooth surface and surface integral of a scalar function ar em. Materials Science I. of materials engineering, overview of technical materials, internal structure of metals, crys- ture and properties of materials and their testing, fundamentals of thermodynamics, phase computer Graphics Surface Treatment treatments - branch signification and objects. Principles of corrosion, types and corrosior orrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings,	ble integral, volu ector function. C ad a vector funct stal lattices and es and phase tr distribution. An electroplating, I	me (=triple irculation a ion. Flow o their defect ansformati ticorrosive not-dip galv tolerancing	Differential opu) integral, Fubi and Green's th f a vector field ts, deformation ons, iron-carbo prevention in anizing. Organ Z g, surface textu	erators div (ni theorem. A po d through a s KZ n, recrystalli on phase di KZ Z manufacturi nic coatings ,ZK ure, geometi	(divergence) Transformation totential vector surface. The 3 ization and agram. 3 ing, method s. Ecological 4 rical tolerance
2011062 N Open and closed set, bour and curl (rotation). Function of integrals to polar, cylindrifield, independence of a lin Gauss-Ostrogradskij theori 2322029 N History and present state of fracture of materials, struct 2012037 C 2333017 S Introduction to the surface anticorrosive prevention. C aspects of surface treatme 2131002 E Principles of ISO GPS (Gedimensional loops, tolerann C	Atematika II. ndary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou rical and spherical coordinates. A simple smooth curve and line integral of a scalar and w ne integral on the path. Simple smooth surface and surface integral of a scalar function ar em. Materials Science I. of materials engineering, overview of technical materials, internal structure of metals, crysture and properties of materials and their testing, fundamentals of thermodynamics, phase computer Graphics urface Treatment treatments - branch signification and objects. Principles of corrosion, types and corrosior orrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, nts. ngineering Design II ometrical Products Specification). Students will get critical knowledge about ISO system of the state of the sta	ble integral, volu ector function. C ad a vector funct stal lattices and es and phase tr distribution. An electroplating, I	me (=triple irculation a ion. Flow o their defect ansformati ticorrosive not-dip galv tolerancing	Differential opu) integral, Fubi and Green's th f a vector field ts, deformation ons, iron-carbu prevention in anizing. Organ Z g, surface textu ce their knowl	erators div (ni theorem. A po d through a s KZ n, recrystalli on phase di KZ Z manufacturi nic coatings ,ZK ure, geometi	(divergence) Transformation totential vector surface. The 3 ization and agram. 3 ing, method 5. Ecological 4 rical tolerance

Code of the group: 12DVP3P-KMEN

Name of the group: 00 2012 D kmenové 3. semestr redukované pro VES prezen ní

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

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 Role members) Tutors, authors and guarantors (gar.) 2021025 Z.ZK 4 1P+2L 3 Physics II. Р Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav 2011009 Z,ZK 2P+2C * 5 Р Kra mar Stanislav Kra mar (Gar.) Materials Science II. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír 2P+2L * 2321039 Z,ZK 4 Р Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.) 2331068 Z,ZK 5 * 2P+2C Р Technology I.

12BV*3P-KMEN-R #

Characteristics of the courses of this group of Study Plan: Code=12DVP3P-KMEN Name=00 2012 D kmenové 3. semestr redukované pro VES prezen ní

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

2321039	Materials Science II.	Z,ZK	4				
Fundamentals of metall	urgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	d thermo-mechar	nical processing,				
technical iron-carbon al	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.						
2331068	Technology I.	Z,ZK	5				
Foundry properties of m	pundry 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. Brazing. Surface treatments.						

Name of the block: Compulsory elective courses Minimal number of credits of the block: 9 The role of the block: PV

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

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

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 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 mť chto skupin. The subject							
describes applicability of	of specific engineering material types and their characteristics. It deals with the current development trends in these materials	s 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.)	KZ	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 preli	minary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing a	nd evaluating the	studied literature			
with particular emphasis	s on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment	or evaluate hither	to obtained			
knowledge or results.						
2332091	Project	KZ	2			
2342091	Project	KZ	2			
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 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 dynamic	(inematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillation						
waves. Fluid mechanics	. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semico	nductors,				
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	direct measureme	nts, regression,				
measurements of 11 va	rious experiments related to the lectures.						
201A021	Constructive Geometry A	ZK	3				
The subject is focused of	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.						
201A056	Mathematics I.A	ZK	4				
Introduction to linear alg	troduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable						

201A062 Mathematics II.A

ΖK 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.

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

4

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

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

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V

2046118	Czech - Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	Z	v
2046127	Czech - Upper Intermediate	Z	2	0P+2C	Z	v
2046128	Jaroslava Kommová Czech - Upper Intermediate	Z	2	0P+2C	L	v
2046119	Jaroslava Kommová Czech Language for Beginners I.	Z	2	0P+2C	Z	v
	Jaroslava Kommová Czech Language for Beginners II.	Z	2	0P+2C		
2046120	Jaroslava Kommová French - Lower Intermediate Course	Z	2	0F+20	L	V
2046086	Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	v
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	V
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	V
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	v
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	v
2046077	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046161	Presentations in English Michaela Schusová	Z	2	0P+2C	*	v
2046166	Presentations in Czech Jaroslava Kommová	Z	2	0P+2C	*	v
2046162	Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	v
2046164	Presentations in Russian Dušana Jirovská	Z	2	0P+2C	*	v
					*	
2046163	Presentations in French language Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	*	V

2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jairne 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 communicative skills in speaking on general topics and general technical topics.	I	I
2046156 English Conversation	Z	2
Improving communicative skills in speaking on general topics and general technical topics.	I	I
2046071 English - Lower Intermediate	Z	2
Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations w	nich a student meets	either at school
or at his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Impro	vement of professiona	al 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 sir	mple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
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.	Written and oral skills	on advanced
level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student'	s field of studies with	out 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 English without gro	eat difficulties
and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and com	prehension of popula	ar-scientific and
scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046072 English - Upper Intermediate	Z	2
The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of stan	dard English speech a	and conversation
about topics of everyday 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 European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional		•
terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on in	ermediate level. Broa	idening grammar
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 terminolog	y (professional langu	
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. Under	standing and use of b	asic expressions
of general scientific terminology (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 abou	them. Writing in a sir	mple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
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	them. Writing in a sir	mple way about
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	-	
active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre	hension of popular-so	cientific and
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	s in Czech on topics familiar to the student. Communication with native speakers, participation ir	n discussions. Expr	essing opinions.
	ding and understanding texts concerning currant issues and popular scientific and technical a		0 1
2046127 Czech - Upper Interme		Z	2
1 1 11	s that a student meets at work, at school, during free time, and talking about these topics. Abil	1 1	
events, briefly explain one's opinions and plans. Read			
		Z	2
1 1 1		-	_
	erence Level A2-B1. The aim is to extend language skills taking into consideration professiona		
	ch and conversation about topics of everyday life - at school, at work, during free time, on inter	rmediate level. Bro	adening the
knowledge technical language.			-
2046119 Czech Language for B	eginners I.	Z	2
	ten form. Understanding and use of basic expressions of general scientific terminology (profes	ssional language)	
2046120 Czech Language for B	eginners II.	Z	2
Mapped to the Common European Framework of Refe	erence Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understar	nding and use of ba	asic expressions
of general scientific terminology (professional languag	le).		
2046086 French - Lower Interme	ediate 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. Wi	riting in a simple w	ay about familiar
topics. Reading and comprehension of simple texts. In	nprovement of professional language.		
2046087 French - Lower Interme		Z	2
	c of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which	1 – 1	
	a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
		<u> </u>	
2046091 French - Advanced			2
	c of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to		
	discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a	ind understanding t	texts concerning
currant issues and popular scientific and technical arti	cles.		
2046090 French - Advanced		Z	2
Comprehension of spoken language as well as lecture	es in French on topics familiar to the student. Communication with native speakers, participation	on in discussions. E	Expressing
opinions. Written skills. Ability to write an essay or a re	port. Reading and understanding texts concerning currant issues and popular scientific and te	echnical articles.	
2046089 French - Upper Interme	ediate	Z	2
	k of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of	comes across at w	
	/ to describe experiences and events, explain one's opinions and plans. Reading and understa		
2046088 French - Upper Interme		Z	2
1 1 1	s that a student meets at work, at school, during free time, and talking about these topics. Abil	· – ·	
events, briefly explain one's opinions and plans. Read		ity to describe exp	enences and
	הוא מות מותבו זגמותווא פרובימו מות נבטווווטמו נבאנז.		0
2046084 French - Beginners		Z	2
	situations which a student meets at school or in his/her free time and speaking about them. Wi	riting in a simple w	ay about familiar
topics. Reading and comprehension of simple texts. In			
2046085 French - Beginners' Co	ourse	Z	<u></u>
		1 – 1	2
	c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which	1 – 1	_
Mapped to the level of Common European Framework		n a student meets a	at school or in
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a	s of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	n a student meets a	at school or in
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a	c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange	n a student meets a of professional lan	at school or in iguage.
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a 2146060 Indonesian Language Basic of Indonesian Language for Student Exchange	 c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia 	of professional lan	at school or in iguage. 2
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a2146060Indonesian LanguageBasic of Indonesian Language for Student Exchange2146061Technical Indonesian -	 c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia Course I. 	n a student meets a of professional lan	at school or in iguage.
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a 2146060 Indonesian Language Basic of Indonesian Language for Student Exchange 2146061 Technical Indonesian - Second part of Indonesian Language for Student Exchange	 c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia Course I. hange Program to Indonesia 	of professional lan	at school or in iguage. 2 2
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a2146060Indonesian LanguageBasic of Indonesian Language for Student Exchange2146061Technical Indonesian -Second part of Indonesian Language for Student Exch2144062Technical Indonesian -	c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia Course I. hange Program to Indonesia Course II.	of professional lan	at school or in iguage. 2
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a 2146060 Indonesian Language Basic of Indonesian Language for Student Exchange 2146061 Technical Indonesian - Second part of Indonesian Language for Student Exchange 2144062 Technical Indonesian - Basic of Indonesian Language for Student Exchange	x of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia Course I. hange Program to Indonesia Course II. Program to Indonesia	a student meets a of professional lan	at school or in iguage. 2 2 3
Mapped to the level of Common European Framework his/her free time and speaking about them. Writing in a2146060Indonesian LanguageBasic of Indonesian Language for Student Exchange2146061Technical Indonesian -Second part of Indonesian Language for Student Exch2144062Technical Indonesian -Basic of Indonesian Language for Student Exchange2046078German - Lower Intern	c of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a simple way about familiar topics. Reading and comprehension of simple texts. Improvement Course for Exchange Program to Indonesia Course I. hange Program to Indonesia Course II. Program to Indonesia nediate Course	a student meets a of professional lan Z	at school or in iguage. 2 2 3 2 2
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2046166 Preparing students to g	Presentations in Czech version provided to provide the presentation with specialized departments.	Z	2
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2046162	Presentations in German	Z	2
	ng technical topics in German, possibly in cooperation with specialized departments.		
2046164	Presentations in Russian	Z	2
Preparation for present	ng technical topics in Russian, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
Preparation for present	ng technical topics in French, possibly in cooperation with specialized departments.		
2046165	Presentations in Spanish	Z	2
Preparation for present	ng technical topics in Spanish, possibly in cooperation with specialized departments.	I	
2046137	Russian - Lower Intermediate Course	Z	2
Understanding clearly v	hat is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wri	ting in a simple wa	ay about familiar
	nprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
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	about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profes		
2046141	Russian - Advanced	Z	2
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-	bout these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understar		
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	ne's opinions and plans. Reading and understanding general and technical texts.		
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	common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understandin	- 1	_
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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	Mathematics I	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 connectior	ns between concep	ts. 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: e	eigennumbers and e	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. Different	ial operators div (d	ivergence)
and curl (rotation). F	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,	Fubini theorem. Tra	Insformation
of integrals to pola	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree	n's theorem. A pote	ential vector
field, independend	e 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 su	urface. The
	Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3

2016007	Mathematics I Seminar	Z	2
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 relation		
201A056	Mathematics I.A Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable	ZK	4
201A062	Mathematics II.A	ZK	4
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different		
. ,	Function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,		
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green the 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		
neid, independend	Gauss-Ostrogradskij theorem.	or neid through a si	inace. The
2021025	Physics II.	Z,ZK	4
	ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves.		
	hatter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	•	
Spectra, x-rays, ;las	ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expe	riments related to	he lectures.
2021041	Physics I.	Z,ZK	7
Kinematics and dyr	namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	operties of bodies.	Oscillations,
	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co		
insulators. Magneti	ic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire	ect measurements,	regression,
0000040	measurements of 11 various experiments related to the lectures.	-	
2026016	Physics - Seminar	Z	2
0004044	The subject is mainly meant for high-school students for repetition of high-school physics.	71/	0
202A041	Physics I. namics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	ZK	3 Decillations
	echanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	•	
	ic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indire		
	measurements of 11 various experiments related to the lectures.	,	- 5 ,
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul		discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	ties, to take part in	discussions,
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
Mapped to the Com	imon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul	ties, to take part in	discussions,
0044004	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		-
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
mapped to the Com	Imon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	lies, to take part in	discussions,
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
	mon European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficul		
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	, I	,
2046068	English - Beginners	Z	2
Aim: Basic voc	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional langua	ige). A1
2046069	English - Beginners	Z	2
Mapped to the Corr	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basic	expressions
	of general scientific terminology (professional language).		
2046070	English - Lower Intermediate	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
0040074	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	7	0
2046071	English - Lower Intermediate	Z	2
	mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvement		
2046072	English - Upper Intermediate	Z	2
	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard Er	-	
	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2		
2046073	English - Upper Intermediate	Z	2
	mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	1	
terminology. Compr	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedi	iate level. Broadeni	ng grammar
	knowledge.		
2046074	English - Advanced	Z	2
	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writte		
ievel. Ability to wri	te a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field Grammar structures on advanced level. B1 - B2.	or studies without	umculties.
2046075	English - Advanced	Z	2
	English - Auvanceu ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in En	1	
	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and comprehe		
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046076	German - Beginners	Z	2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	professional langua	ge)

2046077	German - Beginners	Z	2
	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an general scientific terminology (professional language).	d use of basic expr	ressions of
2046078	German - Lower Intermediate Course	Z	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	. – .	-
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
Mapped to the leve	of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er at school
	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer	nt of professional la	anguage.
2046080	German - Upper Intermediate Course	Z	2
Understanding st	andard 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 experie	ences and
2046094		7	
2046081	German - Upper Intermediate Course		2
	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandir		
-			
2046082	German - Advanced Course		2
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046083	German - Advanced Course		2
	of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge		
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	nsion of popular-so	cientific and
0040004	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	7	0
2046084	French - Beginners		2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way at	oout familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046085	French - Beginners' Course	Z	2
	rel of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a		
	he and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	
2046086	French - Lower Intermediate Course	Z	2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	j in a simple way at	oout familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
	el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a		
his/her free tin	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	guage.
2046088	French - Upper Intermediate	Z	2
Understanding st	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one 's opinions and plans. Reading and understanding general and technical texts.		
2046089	French - Upper Intermediate	Z	2
Mapped to the leve	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	nes across at work,	at school,
during free time, an	nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandin	ng general and tec	hnical texts.
2046090	French - Advanced	Z	2
Comprehension	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	in discussions. Ex	pressing
opinions.	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	and technical article	es.
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 to	pics familiar to the	
Communication with	th native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u	nderstanding texts	concerning
	currant issues and popular scientific and technical articles.		
2046096	Spanish - Beginners	Z	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	o .	
2046097	Spanish - Beginners	Z	2
	ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	I I	
	he and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046098	Spanish - Lower Intermediate		2
	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	ı — ı	
enderetaining elec	topics. Reading and comprehension of simple texts. Improvement of professional language.	, in a completing as	out lamma
2046099	Spanish - Lower Intermediate	Z	2
	el of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studen	I – I	
	nd 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	I – I	
	en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	-	ig opiniono.
2046118	Czech -Advanced	Z	2
	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec		
	on 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.	7	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	. – .	
2046120	Czech Language for Beginners II.	Z	2
	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding		
	of general scientific terminology (professional language).	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Vriting in a sir	ple way abo
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046126 Aim: Understandin	Czech Lower Intermediate g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Vriting in a sir	mple way abo
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability t events, briefly explain one´s opinions and plans. Reading and understanding general and technical texts.	o describe ex	periences and
2046420		Z	2
2046128	Czech - Upper Intermediate	_	2
	nmon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cze prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on intermed knowledge technical language.		
2046135		Z	2
	Russian - Beginners	_	l.
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pr		
2046136 Mapped to the leve	Russian - Beginners el of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language)	Z and use of bas	sic expression
2046137	Russian - Lower Intermediate Course	Z	2
nderstanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	in a simple wa	ay about famili
2046138	Russian - Lower Intermediate Course	Z	2
	I of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a studen	t meets at sch	nool or in his/h
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
2046139	Russian - Upper Intermediate	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability t	o describe ex	periences an
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046140	Russian - Upper Intermediate	Z	2
		_	
	el of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student mee		
e time, and talkir	ng about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understandin	g general and	technical tex
2046141	Russian - Advanced	Z	2
Comprehension	of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation	in discussion	s. Expressing
	Vritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
	white is skills. Ability to write an essay of a report, reading and understanding texts concerning currant issues and popular solentino a		
2046142	Russian - Advanced	Z	2
Manned to the le	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	nics familiar to	the student
			line student.
	h native speakers, participation in discussions. Expressing opinions, Written skills, Ability to write an essay or a report. Reading and ur		
	h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and ur		
ommunication wit	currant issues and popular scientific and technical articles.	nderstanding t	exts concerni
ommunication wit	currant issues and popular scientific and technical articles. English Conversation	nderstanding t	exts concerni
ommunication wit	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics.	nderstanding t	exts concerni
ommunication wit	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation	nderstanding t	exts concerni
2046155	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics.	Z	exts concerni
2046155	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation	nderstanding t	exts concern
2046155	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics.	Z	exts concerni
2046155 2046156 2046161	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Preparing students to present in English on technical topics, with a possible co-operation with specialized departments.	Z Z Z	2 2 2 2 2
2046155	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. Presentations in German	Z	exts concerni
2046155 2046156 2046161 2046162	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Presentations in English Presentations in German Preparation for presenting technical topics in German, possibly in cooperation with specialized departments.	Z Z Z Z Z	2 2 2 2 2 2 2
2046155 2046156 2046161	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. Presentations in German	Z Z Z	2 2 2 2 2
2046155 2046156 2046161 2046162	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Presentations in German Presentations in German Presentations in French language	Z Z Z Z Z	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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2046155 2046156 2046161 2046162	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Presentations in English Presentations in English Presentations in German Presentations in French language Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Presentations in French language Presentations in Russian	Z Z Z Z Z	2 2 2 2 2 2
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2046155 2046156 2046161 2046162 2046163 2046164	currant issues and popular scientific and technical articles. English Conversation Improving communicative skills in speaking on general topics and general technical topics. English Conversation Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Improving communicative skills in speaking on general topics and general technical topics. Presentations in English Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. Presentations in German Presentations in Fernch language Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Presentations in Russian Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	Z Z Z Z Z Z Z Z	exts concern
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2321039	Materials Science II.	Z,ZK	4
	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and th	·	
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi		
2321067	Technical Application of Materials	Z,ZK	5
P edm t popisuje a	aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend	· .	The subject
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.	
2322029	Materials Science I.	KZ	3
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor		
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	-	-
2322091	Project	KZ	2
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	-	
with particular e	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o knowledge or results.	r evaluate hitherto	obtained
0004000		7 71/	-
2331068	Technology I. of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form	Z,ZK	5 ni producto
r oundry properties	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment		in-producis,
2331071	Automation of Production Processes	Z,ZK	5
	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat	· .	-
	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De		
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		-
2332091	Project	KZ	2
2333017	Surface Treatment	Z	3
Introduction to the	e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventi	، on in manufacturin	g, method
anticorrosive prev	vention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing.	Organic coatings.	Ecological
	aspects of surface treatments.		
2333038	Fundamentals of Technology I.	Z	3
	ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology		
	sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech		
Free and drop for	orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welc	ling. Fusion weldin	g: Flame
0044004	welding and arc welding with coated electrodes. Thermal cutting.	7 71/	
2341001	Metrology	Z,ZK	5
	ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seco pordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct		
11 1, 2, 010 0 00	Measurement automatisation.		awiness.
2341002	Cutting tools	Z.ZK	4
	aracteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination and	, ,	
-	Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, milli		-
	tools. Grinding, use and maintenance of cutting tools.		
2341014	Technology II.	Z,ZK	5
mechanics of chip	formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econor	nics. Automation of	processes,
	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.		
2341068	Special machining technology	Z,ZK	5
	f cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, e		
	e of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics		
Expert, adaptive	and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finis the aerospace industries, automotive, energy and other areas.	ning methods. Tec	nnology in
2341515	Manufacturing process planning	Z,ZK	4
	urse in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and metho	· · · · ·	
	gard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the des	<i></i>	
-	hnical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the		
-	of performed activity.		
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: statistical	cal process contro	l, statistical
	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ontrol systems.	
2342032	Automation of machine tool programming	KZ	3
	Utilizations of computer technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC ma	chine tool.	
2342091	Project	KZ	2
	Work on specialized tasks.		
2343993	Bachelor thesis	Z	5
Sources of inform	ation in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Pr	-	h and work
0070044	in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a the		
2372041	Computer Support for Study	KZ	3 Studente
	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni		
2383001		Z	2
	Fundamentals of Law n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	- 1	
	ources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is n		- 1
	ons, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.	-	
•	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation		
	to prepare professional presentations and to understand basic structures between law and engineering		

For updated information see http://bilakniha.cvut.cz/en/FF.html

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