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: Manufacturing and Economy in Mechanical Engineering

Type of study: Bachelor 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:

Note on the gi	oup.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Lucie Pilsová, 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	KZ	3	1P+1C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131002	Engineering Design II Martin Dub, Jan Flek, Martin Havlí ek, Jan Kanaval, Karel Petr, Marek Štádler, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р

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

2182019 Chemistry

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

2021041	Physics I.	Z,ZK	7
Kinematics and dyna	nics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, ela	stic properties of bodie	es. Oscillations,
waves. Fluid mechan	cs. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance.	Conductors, semicono	ductors,
insulators. Magnetic t	ield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and	indirect measuremen	ts, regression,
measurements of 11	various experiments related to the lectures.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focuse	d 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, greate	emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and contractions of the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of basic relationships and contract the concepts discussed and on the derivation of the concepts discussed and d	nections between con-	cepts. Students
will also get to know th	ne procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic a	reas: eigennumbers ar	nd eigenvectors
of a matrix, Taylor po	ynomial, 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. Diff	erential operators div	(divergence)
and curl (rotation). Fu	nction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) in	tegral, Fubini theorem.	Transformation
of integrals to polar, of	ylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and	Green's theorem. A p	otential vector
	f a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a	vector field through a	surface. The
Gauss-Ostrogradskij	theorem.		
2322029	Materials Science I.	KZ	3
	tate of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects,	•	
fracture of materials,	structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations	s, iron-carbon phase d	liagram.
2012037	Computer Graphics	KZ	3
2372041	Computer Support for Study	KZ	3
The course introduce	s students into creating technical and professional documents on computers or Web and into realizing technical computation	s with the use of comp	uters. Students
gain practical skills by	r creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni	cal-based WWW page	Э.
2132001	Engineering Design I.	KZ	2
Basic of technical rep	resentation, dimensioning and tolerancing	<u> </u>	
2131002	Engineering Design II	Z,ZK	4
Principles of ISO GP	6 (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, s	urface texture, geome	trical tolerance,
dimensional loops, to	lerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice	their knowledge from	lectures.
2131005	History of Technology	ZK	3
Developement of hur	nan knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphas	is is given upon new b	oranches of
technology with spec	al attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in t	he narrower sense of	the word.

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:

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
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

K333038	Fundamentals of Technology I.	Z	3
Production processes in	n engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, ted	chnical metals. Pr	oduction of pig
iron and steel. Casting:	modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming to	echnology. Hot an	d cold forging.

iron and steel. Casting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming technology. Hot and cold forging Free and drop forging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding. Fusion welding: Flame welding and arc welding with coated electrodes. Thermal cutting.

Code of the group: 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:

Note on the gro	⁴ P.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р

2311004	Mechanics for Technology	Z,ZK	7	4P+2C	*	Р
2321039	Materials Science II. Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Jan Walter, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Stanislav Krum Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
K331068	Technology I Bohumír Bedná	Z,ZK	5	16B	*	Р
2121023	Thermodynamics	Z,ZK	5	3P+2C	*	Р

2021025	Physics II.	Z,ZK	4
Faraday's law of ele	electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quan	ntum properties of electromagnetic w	aves. Interaction
of radiation with m	natter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion.	Hydrogen atom and periodic system	n of elements.
Spectra, x-rays, ;la	laser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - mea	asurements of 6 experiments related	to the lectures
2011009	Mathematics III	Z,ZK	5
An introductory co	ourse in ordinary differential equation and infinite series.	·	
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II.	Z,ZK	4
	Materiale Coloride II.	_, <u>_</u> ,	
	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic	1 '	ical processing
Fundamentals of n		1 '	ical processing
Fundamentals of n	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic	1 '	nical processing
Fundamentals of n technical iron-carb K331068	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.	cal and thermal and thermo-mechan	5
Fundamentals of n technical iron-carb K331068 Foundry properties	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Technology	cal and thermal and thermo-mechan	5
Fundamentals of n technical iron-carb K331068 Foundry properties	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Technology	cal and thermal and thermo-mechan	5
Fundamentals of n technical iron-carb K331068 Foundry properties heating-up. Cutting 2121023	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Technology I se of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deforming. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatment.	cal and thermal and thermo-mechan Z,ZK nation. Division of forming processes Z,ZK	5 . Semi-products
Fundamentals of n technical iron-carb K331068 Foundry properties heating-up. Cutting 2121023 The course deal w	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Technology Proceedings	Z,ZK nation. Division of forming processes Z,ZK les and diffusers. Basic concepts ar	5 . Semi-products 5 nd principles are
Fundamentals of n technical iron-carb K331068 Foundry properties heating-up. Cutting 2121023 The course deal w introduced, and the	metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemic bon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Technology Proceedings	Z,ZK nation. Division of forming processes Z,ZK zles and diffusers. Basic concepts are studied with an emphasis or	5. Semi-products 5 nd principles arn

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:

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
2381075	Enterprise Management and Economics	Z,ZK	5	2P+2C	4	Р
2383102	Personnel Management Jan Horejc	Z	2	2P+1C	*	Р
2342005	Quality Control Jan Podaný	KZ	2	1P+1C+1L	*	Р
K341014	Technology II. Pavel Novák	Z,ZK	5	8KP+8KC	*	Р

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

2381075	Enterprise Management and Economics	Z,ZK	5			
2383102	Z	2				
Personnel / human reso	burce management is concerned with the effective management of people at work. Subject examines what can or should be	done to make ped	ple both more			
productive and more sa	tisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the l	numan resources	of organizations.			
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 c	ontrol, statistical			
sampling. Tools and me	sampling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control systems.					
K341014	Technology II.	Z,ZK	5			

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
2131519	Machine Elements for Technology Martin Dub, Martin Havlí ek, Jan Kanaval, Eliška Cézová, Zden k ešpíro, František Lopot, Roman Uhlí, Ji í Houkal, Ond ej Što ek František Lopot František Lopot (Gar.)	Z,ZK	5	2P+3C	*	Р
2381068	Cost Accounting Theodor Beran, Ladislav Vaniš Theodor Beran Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	Р
2141204	Introduction to Electrical Engineering for Technology Jan Chyský, Lubomír Musálek, Martin Novák Lubomír Musálek Jan Chyský (Gar.)	Z,ZK	4	2P+0C+2L	*	Р
2383001	Fundamentals of Law	Z	2	1P+1C	*	Р

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

2131519	Machine Elements for Technology	Z,ZK	5
2381068	Cost Accounting	Z,ZK	5

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

2141204 Introduction to Electrical Engineering for Technology

7.7K

4

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

2383001 Fundamentals of Law

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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

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

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

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

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 Pavel Novák	KZ	3	1P+2C	*	Р
2341515	Manufacturing process planning Ji í Kyncl Pavel Novák	Z,ZK	4	2P+2C	*	Р
2341001	Metrology Libor Beránek, Petr Mikeš Pavel Novák	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	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 t	o minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the	designing of asse	embly processes						
with respect to technical	I and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard t	o the type of proc	ess and the type						
of performed activity.									
2341001	Metrology	Z,ZK	5						
Metrology, intergration in	to quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and s	secondary standa	rts. Measurement						
in 1, 2, end 3 coordinate	n 1, 2, end 3 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness.								
Measurement automatis	sation.								

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 Jaroslav ervený, Aleš Herman, Ladislav Kola ík, Viktor Kreibich, Ji í Kucha, Vít Novák, František Tatí ek Aleš Herman Aleš Herman (Gar.)	Z,ZK	5	3P+2C	*	Р
2381098	Enterprise Finance František Freiberg František Freiberg (Gar.)	Z,ZK	4	2P+2C	*	Р
2382048	Statistical and Decision Analysis Barbora Stieberová Barbora Stieberová (Gar.)	KZ	4	2P+1C	*	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

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.

2381098 Enterprise Finance Z,ZK 4

The subject Financing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an understanding of the main con-cepts and their practical application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and purpose of projected financial statements and their role in the development of future plans for a business and in the assessing the impact of management decision on the performance and position of a business, factors which must be taken into account when managing the working capital of a business, various aspects of financing the business through external and internal sources of finance available to a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of mergers and takeovers.

2382048 Statistical and Decision Analysis KZ 4

Statistical analysis is a good basis for a creation of decision-making models. The goal of this subject is to teach students to apply the selected statistical method, to apply models of decision analysis, to create models for the management of industrial enterprises.

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 Pavel Novák	Z	5	0P+6C	*	Р
2341002	Cutting tools Pavel Novák	Z,ZK	4	2P+1C	*	Р
2341068	Special machining technology Jan Mádl	Z,ZK	5	3P+2C	*	Р
2381107	Engineering Ergonomy Ladislav Vaniš Jan Horejc (Gar.)	Z,ZK	4	2P+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

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, determination and measurement. Cutting tools elements design. Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, 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 machining, engineering economics and ecology. Influence of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics, grinding difficult-materials. Expert, adaptive and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finishing methods. Technology in the aerospace industries, automotive, energy and other areas.

2381107 | Engineering Ergonomy | Z,ZK | 4
The aim of the subject engineering ergonomics is to become acquainted with the problems, constraints and the optimal solution of the fundamental unit of an enterprise or organization,

i.e. with system - man - technology (machine) - environment. The character of the subject is going out from the anthropocentric principle, i. e. that every system MTE as in the manufacturing, managing, technological, designing so in other spheres it is important unambiguously to accommodate them to the possibilities, abilities and skills of the weakest link - that is to the given man. The students will learn not only to start from the man?s limitations during the designing of the MTE system, but also evaluate the existing economic level of the system and design rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels of economic spheres to ensure the optimal wellbeing for themselves and for the users of the designed systems as well as for their subordinates. The not-excludable output is also the health of man and higher quality and productivity of labour.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 11

The role of the block: PV

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

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

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

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

Credits in the group: 2

Note on the group:

Ze skupiny humanitních předmětů nutno j e d e n absolvovat

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

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

2383019 Philosophical Issues Of Individual and Science Z 2

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

Managerial Psychology

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:

2383008

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

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

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

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

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

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

Credits in the group: 5 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2321067	Technical Application of Materials Stanislav Krum	Z,ZK	5	3P+1C	*	PV
2381002	Fundamentals of Economics Theodor Beran Theodor Beran (Gar.)	Z,ZK	5	2P+2C	*	PV

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

Characteristics of	Characteristics of the courses of this group of Study Flan. Code=12BV 4Q-2AM Name=10 2012 BVES 4.Sem Zam Tpovvoi									
2321067	Technical Application of Materials	Z,ZK	5							
P edm t popisuje apliko	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	of specific engineering material types and their characteristics. It deals with the current development trends in these materials	s as well.								
2381002	Fundamentals of Economics	Z,ZK	5							
The course is focused of	The course is focused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating of the economics according									
to so called macroekon	omic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different markets a	and competitions.								

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 Jakub Horník, Jana Sobotová, Ji í Cejp, Elena ižmárová, Pavlína Hájková, Stanislav Krum, Jan Kr il, Vladimír Mára, Jakub Horváth, Stanislav Krum	KZ	2	0P+2C	*	PV
2382091	Specialization Project Ladislav Vaniš, Barbora Stieberová, Vladimír Brdek František Freiberg	KZ	2	0P+2C	*	PV
2332091	Project Jaroslav ervený, Aleš Herman, Ladislav Kola ík, Viktor Kreibich, Ji í Kucha, František Tatí ek, Bohumír Bedná, Barbora Bryksí Stunová, Jan ermák, Ladislav Kola ík Aleš Herman (Gar.)	KZ	2	0P+2C	*	PV
2342091	Project Ji í Kyncl, Tomáš Kellner, Martin Kyncl, Libor Beránek, Michal Koptiš, Petr Mikeš, Jan Šimota, Jan Urban, Vladislav Andronov, Pavel Novák	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	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.										

2382091	Specialization Project	KZ	2				
2332091	Project	KZ	2				
2342091	Project	KZ	2				
Work on specialized ta	fork 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:

202A041

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

202/10 1 1	1 Hy3iO3 1.		, ,
Kinematics and dyna	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic	properties of boo	dies. Oscillations,
waves. Fluid mechai	nics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	nductors, semico	nductors,
insulators. Magnetic	field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	direct measureme	ents, regression,
measurements of 11	1 various experiments related to the lectures.		
201A021	Constructive Geometry A	ZK	3
The subject is focus	ed on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		•
201A056	Mathematics I.A	ZK	4
Introduction to linea	r algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
Open and closed se	t, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differe	ential operators di	v (divergence)
and curl (rotation). For	unction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theoren	n. Transformation
1			

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

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, Olga Majlingová Radka Keslerová	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	7	2
1	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:

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 Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub Michele Le Blanc (Gar.)	Z	2	0P+2C	*	٧

2046156	English Conversation Michele Le Blanc, Eliška Vitková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Avyub	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046074	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046075	English - Advanced Michele Le Blanc, Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	V
2046068	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub, 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.	Z	2	0P+2C	L	V
2046086	Jaroslava Kommová French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046091	French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046090	French - Advanced Eliška Vítková, Michaela Schusová, Dušana Jirovská Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Eliška Vítková, 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 Michaela Schusová (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 Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V

2046083	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	L	V
2046082	German - Advanced Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	٧
2046081	German - Upper Intermediate Course Eliška Vitková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046161	Presentations in English Eliška Vítková, Michaela Schusová, Ilona Šimice, Nina Procházková Ayyub Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	*	V
2046166	Presentations in Czech Eliška Vítková, Jaroslava Kommová, Petr Laurich (Gar.) Petr Laurich (Gar.)	Z	2	0P+2C	*	V
2046162	Presentations in German Eliška Vítková, Jaroslava Kommová, Petr Laurich Jaroslava Kommová Eliška Vítková (Gar.)	Z	2	0P+2C	*	V
2046164	Presentations in Russian Eliška Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046163	Presentations in French language Eliška Vitková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vitková Eliška Vitková	Z	2	0P+2C	*	V
2046137	Russian - Lower Intermediate Course Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská 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 Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	٧
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 Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská 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 Eliška Vítková, Michaela Schusová, Hana Volejníková, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Eliška Vítková, Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Eliška Vítková, Michaela Schusová, 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	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

mun-j a pro-critac) [
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	ve skills in speaking on general topics and general technical topics.		•				
2046071	English - Lower Intermediate	Z	2				
Mapped to the Common	n European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which	a student meets	either at school				
or at his/her free time a	or at his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvement of professional language.						
2046070	English - Lower Intermediate	Z	2				
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about							
familiar topics. Reading	and comprehension of simple texts. Improvement of professional language. A1 - A2.						

1	English - Advanced of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writ	ten and oral skills	2 on advanced
1	mmary, a report, an essay, reading and comprehension of popular-scientific and scientific articles or texts from student's fie		
Grammar structures on a			
	English - Advanced European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E	Z Z	2
	n a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay, reading and comprel		
	from student's field of studies without difficulties. Grammar structures on advanced level.		
1	English - Upper Intermediate	Z Z	2
	uage skills taking into consideration professional English and common professional terminology. Comprehension of standarc life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	i English speech a	ind conversation
2046073	English - Upper Intermediate	Z	2
	European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional En	•	•
knowledge.	sion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	iediale ievei. Broa	dening grammar
	English - Beginners	Z	2
	everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p		
	English - Beginners European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	ding and use of h	2 asic expressions
I .	inology (professional language).	ding and use of be	asic expressions
	Czech Lower Intermediate	Z	2
	rly 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
	ind comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate	7	2
1	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the		_
	and comprehension of simple texts. Improvement of professional language.		
1	Czech -Advanced ommon European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C	Zech without are:	2 at difficulties and
	iscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen		
	from student's field of studies without difficulties. Grammar structures on advanced level.		
1	Czech -Advanced	Z disquesions Ever	2
1 '	n language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in rite an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical a	· ·	essing opinions.
2046127	Czech - Upper Intermediate	Z	2
	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilia	ty to describe exp	eriences and
I events, briefly explain on			
	e's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	Z	2
2046128 Mapped to the Common	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional	Czech and comm	non professional
2046128 Mapped to the Common terminology. Comprehens	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter	Czech and comm	non professional
2046128 Mapped to the Common terminology. Comprehen- knowledge technical lang	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interguage.	Czech and comm	non professional adening the
2046128 Mapped to the Common terminology. Comprehens knowledge technical lange 2046119	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter	Czech and commediate level. Bro	non professional
2046128 Mapped to the Common terminology. Comprehens knowledge technical lang 2046119 Basic vocabulary of ever 2046120	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interguage. Czech Language for Beginners I. yday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profestic Czech Language for Beginners II.	Czech and commediate level. Brozen Z sional language)	non professional adening the 2
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2046128 Mapped to the Common terminology. Comprehension who will be common terminology. Comprehension who will be common terminology. Comprehension who will be common of general scientific term 2046086 Understanding clearly who topics. Reading and com 2046087 Mapped to the level of Communication with naticurrant issues and popul 2046090 Comprehension of spoke opinions. Written skills. A 2046089 Mapped to the level of Coduring free time, and talk 2046088 Understanding standard events, briefly explain on 2046084 Understanding clearly who topics. Reading and com 2046085 Mapped to the level of Coduring free time, and company who will be company when we will be company who will be company who will be company when we will be company when we w	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter juage. Czech Language for Beginners I. day life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess Czech Language for Beginners II. European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understant inology (professional language). French - Lower Intermediate Course at is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Written Prehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Dommon European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which asking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional professional spoken language as well as lectures in French on to we speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading ard ars ccientific and technical articles. French - Advanced In language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation bility to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and texts. French - Upper Intermediate Dommon European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students coing about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading	Z sional language) Z ding and use of ba Z titing in a simple w Z a student meets a of professional lan Z pics familiar to the d understanding Z on in discussions. I echnical articles. Z omes across at wanding general and Z ty to describe exp Z a student meets a	adening the 2 2 asic expressions 2 ay about familiar 2 at school or in aguage. 2 extudent. extexts concerning 2 extraction and texts. 2 arrive and texts. 3 arrive and texts. 4 arrive and tex
2046128 Mapped to the Common terminology. Comprehension of general scientific term 2046086 Understanding clearly who to the level of Communication with naticurrant issues and popul 2046089 Mapped to the level of Communication with naticurrant issues and popul 2046090 Comprehension of spoke opinions. Written skills. A 2046088 Understanding standard events, briefly explain on 2046084 Understanding standard events, briefly explain on 2046084 Understanding clearly who topics. Reading and com 2046084 Understanding clearly who topics. Reading and com 2046085 Mapped to the level of Comprehension of spoke opinions. Written skills. A 2046088 Understanding standard events, briefly explain on 2046084 Understanding clearly who topics. Reading and com 2046085 Mapped to the level of Cohis/her free time and spe	Czech - Upper Intermediate European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inter juage. Czech Language for Beginners I. yday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes Czech Language for Beginners II. European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan inology (professional language). French - Lower Intermediate Course at is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Wr prehension of simple texts. Improvement of professional language. French - Lower Intermediate Course Description of the simple texts. Improvement of professional language. French - Advanced Description - Besider - B	Z sional language) Z ding and use of ba Z titing in a simple w Z a student meets a of professional lan Z pics familiar to the d understanding Z on in discussions. I echnical articles. Z omes across at wanding general and Z ty to describe exp Z a student meets a	adening the 2 2 asic expressions 2 ay about familiar 2 at school or in aguage. 2 extudent. extexts concerning 2 extraction and texts. 2 arriences and 2 ay about familiar 2 ay about familiar

2146061 Second part of Indone	Technical Indonesian - Course I. esian Language for Student Exchange Program to Indonesia	Z	2
2144062	Technical Indonesian - Course II. anguage for Student Exchange Program to Indonesia	Z,ZK	3
2046078	German - Lower Intermediate Course	7	2
	learly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the		
familiar topics. Readir	ng and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
• • •	f Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme		
2046083	German - Advanced Course	7	2
	f Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given i	│ ∠	_
* *	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compr	-	
	xts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046082	German - Advanced Course	Z	2
	oken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participat s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and t		expressing
2046081	German - Upper Intermediate Course	Z	2
	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students of		_
during free time, and	talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa	anding general and	technical text
2046080	German - Upper Intermediate Course	Z	2
=	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil	ity to describe expe	riences and
2046076	one's opinions and plans. Reading and understanding general and technical texts. German - Beginners	Z	2
	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes		2
2046077	German - Beginners	Z	2
Mapped to the level C	common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic ex	pressions of
	ninology (professional language).		
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.	Z	
2046166 Preparing students to	Presentations in Czech give presentations in English on technical topics, with a possible co-operation with specialized departments.	2	2
2046162	Presentations in German	Z	2
	nting technical topics in German, possibly in cooperation with specialized departments.		_
2046164	Presentations in Russian	Z	2
Preparation for prese	nting technical topics in Russian, possibly in cooperation with specialized departments.		
2046163	Presentations in French language	Z	2
2046165	nting technical topics in French, possibly in cooperation with specialized departments.	Z	
	Presentations in Spanish nting technical topics in Spanish, possibly in cooperation with specialized departments.		2
2046137	Russian - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. We		
topics. Reading and c	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 st g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		ool or in his/h
2046141	Russian - Advanced	Z	2
	oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participat		
opinions. Written skill:	s. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to	echnical articles.	
2046142	Russian - Advanced	Z	2
• •	f Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on	-	
	native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a pular scientific and technical articles.	nd understanding te	xis concerni
2046140	Russian - Upper Intermediate	Z	2
	f Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student	1 1	
free time, and talking	about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understa	anding general and t	echnical tex
2046139	Russian - Upper Intermediate	Z	. 2
-	ard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abil	ity to describe expe	riences and
2046136	one's opinions and plans. Reading and understanding general and technical texts. Russian - Beginners	Z	2
	Frussian - Degrimers f Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understand		
	erminology (professional language)	<u> </u>	
2046135	Russian - Beginners	Z	2
	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes		
2046099	Spanish - Lower Intermediate	Z	2
* *	f Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stu g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profe		oı or in his/h
free time and anadria	g αρουί τηση, τέττιτης τη α σπήριο way αρουί ιαιτιπαι τορίος. Γιοαμπίς από συπριθπείτουπ οι διπιριθ τέχις. Ππριονέπιθηι οι ριοίε	oolonai language.	
	Spanish - Lower Intermediate	7	2
2046098	Spanish - Lower Intermediate what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	Z riting in a simple way	2 / about famil

2046096	Spanish - Beginners	Z	2			
Aim:Understanding clea	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	m. Writing in a sim	ple way about			
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.						
2046097	Spanish - Beginners	Z	2			
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in						
his/her free time and sp	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	iguage.			

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	ns.	
2011056	Mathematics I	Z,ZK	8
_	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection		
vill also get to know	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigen of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	gennumbers and e	eigenvecto
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. Differenti	al 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, i	Fubini theorem. Tra	nsformatio
of integrals to polar	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer	's theorem. A pote	ential vecto
field, independence	ee of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vecto	r 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	ZK	4
20171000	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		
201A062	Mathematics II.A	ZK	4
	set, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti		•
•	function given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, i		•
	r, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green		
oi iiitegiais to polai	, cylindrical and sprierical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green	s illeolelli. A pole	illiai veci
field independence	a 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	r field through a cu	irface The
	ee of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.		
2021025	Gauss-Ostrogradskij theorem. Physics II.	Z,ZK	4
2021025 Faraday's law of elec	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec	Z,ZK tromagnetic waves	4 s. Interaction
2021025 Faraday's law of elector of radiation with m	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and	Z,ZK tromagnetic waves periodic system of	4 s. Interaction f elements
2021025 Faraday's law of ele of radiation with m Spectra, x-rays, ;las	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiences.	Z,ZK tromagnetic waves periodic system of iments related to t	4 s. Interaction f elements he lecture
2021025 Faraday's law of ele of radiation with m Spectra, x-rays, ;las 2021041	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments. Physics I.	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK	4 s. Interaction f elements the lecture 7
2021025 Faraday's law of elector of radiation with m Spectra, x-rays, ;las 2021041 Kinematics and dyn	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic reflect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experages. Physics I. Inamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro-	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies.	4 s. Interaction f elements he lecture 7 Oscillation
2021025 Faraday's law of elector fradiation with m Spectra, x-rays, ;las 2021041 Cinematics and dynwaves. Fluid me	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prospectanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. Inductors, semicon	4 s. Interaction of elements the lecture of the second of
2021025 Faraday's law of elector fradiation with m Spectra, x-rays, ;las 2021041 Cinematics and dynwaves. Fluid me	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic reflect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic prospondings. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co c field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect.	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. Inductors, semicon	4 s. Interaction of elements the lecture 7 Oscillation ductors,
2021025 Faraday's law of elector of radiation with mean spectra, x-rays, ;las 2021041 Kinematics and dyn waves. Fluid meinsulators. Magnetic	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic procedenaics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conceded to the lectures.	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. inductors, semicon of measurements,	4 s. Interaction f elements he lecture 7 Oscillation ductors, regression
2021025 Faraday's law of elector fradiation with m Spectra, x-rays, ;las 2021041 Cinematics and dynwaves. Fluid me	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic procedurations. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co of field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures. Physics - Seminar	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. Inductors, semicon	4 s. Interaction of elements the lecture 7 Oscillation ductors,
2021025 Faraday's law of elector fradiation with mean spectra, x-rays, ;las 2021041 Kinematics and dyn waves. Fluid meinsulators. Magnetics	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic procedenaics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conceded to the lectures.	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. on ductors, semicon of measurements,	4 s. Interaction f elements he lecture 7 Oscillation ductors, regression
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2021025 Faraday's law of elector radiation with mean spectra, x-rays, ;lasted 2021041 Ginematics and dyn waves. Fluid meansulators. Magnetic 2026016 202A041 Ginematics and dyn	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of election atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 expering Physics I. It is a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic procedures. The perature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conceded to the lectures of the procedure	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. on ductors, semicon of measurements, Z ZK perties of bodies. on	4 s. Interaction f elements he lecture 7 Oscillation ductors, regression 2 3 Oscillation
2021025 Faraday's law of elector radiation with mospectra, x-rays, ;last 2021041 Ginematics and dyn waves. Fluid mensulators. Magnetic 2026016 202A041 Ginematics and dyn	Gauss-Ostrogradskij theorem. Physics II. ctromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of election atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and ser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experior Physics I. Inamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic procechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co of cield. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements of 11 various experiments related to the lectures. Physics - Seminar The subject is mainly meant for high-school students for repetition of high-school physics. Physics I.	Z,ZK tromagnetic waves periodic system of iments related to t Z,ZK perties of bodies. on ductors, semicon of measurements, Z ZK perties of bodies. on	4 s. Interaction f elements he lecture 7 Oscillatior ductors, regression 2 3 Oscillatior
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2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	mmon 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.		
2046068	English - Beginners	Z	2
	abulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (_	I
2046069	English - Beginners	7	2
	3 3	a and use of basis	-
wapped to the Con	mmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understandin	y and use of basic	expressions
	of general scientific terminology (professional language).		
2046070	English - Lower Intermediate	Z	2
Aim: Understandin	ng 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	e way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Cor	, mmon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er 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. Improvement	ent of professional	language.
2046072	English - Upper Intermediate	7	2
	d language skills taking into consideration professional English and common professional terminology. Comprehension of standard Er	. –	-
THE AITH IS TO EXTERN	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2		Conversation
0040070			
2046073	English - Upper Intermediate	Z	2
	ommon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engl	-	
terminology. Compi	rehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermed	ate level. Broadeni	ing grammar
	knowledge.		
2046074	English - Advanced	Z	2
The aim: compret	nension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writte	n and oral skills on	advanced
level. Ability to wri	ite a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field	of studies without	difficulties.
_	Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	7	2
	pommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in Er	alish without areat	1
	pation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay reading and comprehe		
and active particip	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.	rision of popular-sc	Jieritilio aria
0040070		l -	
2046076	German - Beginners	<u> </u>	2
Basic voca	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	orofessional langua	
2046077	German - Beginners	Z	2
Mapped to the lev	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding ar	nd use of basic exp	ressions of
	general scientific terminology (professional language).		
2046078	German - Lower Intermediate Course	Z	2
	ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	l .
, Gridorotaridir.	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	o may about
2046079	German - Lower Intermediate Course	7	2
		. –	1
''	el of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		
	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme	-	
2046080	German - Upper Intermediate Course	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experi	iences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046081	German - Upper Intermediate Course	Z	2
Mapped to the lev	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students cor	nes across at work	, at school,
during free time, ar	nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand	ng general and ted	chnical texts.
2046082	German - Advanced Course	7	2
	of spoken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participatic	_	I
=			
	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific		
2046083	German - Advanced Course	Z	2
	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in G	-	
and active participa	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-s	cientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084	French - Beginners	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	g in a simple way a	bout familiar
_	topics. Reading and comprehension of simple texts. Improvement of professional language.	-	
2046085	French - Beginners' Course	Z	2
	reflicit - Degriffiers Course /el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	_	1
	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
		_	
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	ın a sımple way a	Dout familiar
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046087	French - Lower Intermediate Course	Z	2
Mapped to the lev	vel of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	school or in
his/her free tim	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvemen	of professional lar	nguage.
2046088	French - Upper Intermediate	Z	2
	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	_	I
Jindonotanianing St	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to docombo expen	.5.1000 and
20.40020		7	
2046089	French - Upper Intermediate	Z	2
	all of Command Francisco Francisco of Defended AC DATE 1 1 1 1 1 1 1 1 1		4 _ 1
	vel of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students con and talking about these topics. Ability to describe experiences and events, explain one s opinions and plans. Reading and understand		

2046090	French - Advanced	Z	2
Combrenension or show	en language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation	in discussions. E	1
	skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific ar	nd technical articl	les.
2046091	French - Advanced	Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on top		
ommunication with native	speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and un currant issues and popular scientific and technical articles.	derstanding texts	s concerni
2046096	Spanish - Beginners	7	2
	y what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	Vriting in a simple	1
,	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		•
2046097	Spanish - Beginners	Z	2
Mapped to the Common	European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a str	udent meets at s	chool or in
	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement c		
2046098	Spanish - Lower Intermediate	Z	2
nderstanding clearly what	t 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 a	bout famil
0040000	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z moots at school	or in his/h
• •	king about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of pr		
2046117	Czech -Advanced	Z	2
	language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disci	-	1
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tea	=	3 -1
2046118	Czech -Advanced	Z	2
apped to the level of Com	nmon European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czech	ı without great di	fficulties a
active participation in a c	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension	on of popular-scie	entific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		1
2046119	Czech Language for Beginners I.	Z	2
	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro		
2046120	Czech Language for Beginners II.	Z	2
apped to the Common Et	uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	and use of basic	expressio
2046125	Czech Lower Intermediate	Z	2
	y what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	-	1
and onderotaliang cloans	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	vitting in a oimpi	o way abo
2046126	Czech Lower Intermediate	7	2
	y what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. V	Vriting in a simple	1
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	-	-
2046127	Czech - Upper Intermediate	Z	2
Understanding standard s	speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to	o describe exper	iences an
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
• •	uropean Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cze	ch and common	profession
terminology. Comprehens	sion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interme knowledge technical language.	diata laval Progr	doning the
	iniomougo tooninoa languago.	ediate level. Broad	dening the
2046135	Russian - Beginners		
2046135 Basic vocabulary of	Russian - Beginners of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro	Z	2
Basic vocabulary o	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro	Z	2 age)
Basic vocabulary of 2046136	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro	Z ofessional langua Z	2 age) 2
Basic vocabulary of 2046136	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro	Z ofessional langua Z	2 age) 2
Basic vocabulary of 2046136	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro- Russian - Beginners mmon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a	Z ofessional langua Z	2 age) 2
Basic vocabulary of 2046136 dapped to the level of Cor	of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (pro Russian - Beginners mmon 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 ofessional langua Z and use of basic o	2 age) 2 expression
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Basic vocabulary of 2046136 dapped to the level of Core 2046137 derstanding clearly what 2046138	Russian - Beginners mmon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding an of general scientific terminology (professional language) Russian - Lower Intermediate Course t 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. Russian - Lower Intermediate Course	Z ofessional langua Z and use of basic e Z in a simple way a	2 age) 2 expression 2 about famil
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Basic vocabulary of 2046136 lapped to the level of Cor 2046137 nderstanding clearly what 2046138 apped to the level of Correctime and spea 2046139 Understanding standard stand	Russian - Beginners mmon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course t 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. Russian - Lower Intermediate Course Russian - Lower Intermediate Course mon European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student king about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Upper Intermediate speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Russian - Upper Intermediate mmon European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Russian - Upper Intermediate	Z ofessional langua Z and use of basic of Z in a simple way a Z t meets at school rofessional langua Z o describe experi	2 age) 2 expression 2 expressio
Basic vocabulary of 2046136 lapped to the level of Core 2046137 nderstanding clearly what 2046138 lapped to the level of Core free time and spea 2046139 Understanding standard second 2046140 Mapped to the level of Core time, and talking about 2046140 lapped to the level of Core time, and talking about 2046140 lapped to the level of Core time, and talking about 2046139 lapped to the level of Core time, and talking about 2046140 lapped to the level of Core time, and talking about 2046139 lapped to the level of Core time, and talking about 2046136 lapped to the level of Core time.	Russian - Beginners mmon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course t 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. Russian - Lower Intermediate Course Russian - Lower Intermediate Course mon European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student king about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Upper Intermediate speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Russian - Upper Intermediate	Z ofessional langua Z and use of basic of Z in a simple way a Z t meets at school rofessional langua Z o describe experi	2 age) 2 expression 2 expression 2 expression 2 or in his/hage. 2 eiences and 2 eiences and 2 enool, durin echnical tex
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Basic vocabulary of 2046136 Mapped to the level of Core 2046137 Mapped to the level of Core time and spear 2046139 Understanding standard sta	Russian - Beginners mmon European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding a of general scientific terminology (professional language) Russian - Lower Intermediate Course t is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing it topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Lower Intermediate Course Russian - Lower Intermediate Course monon European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a student king about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Upper Intermediate speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to events, briefly explain one's opinions and plans. Reading and understanding general and technical texts. Russian - Upper Intermediate mmon European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student meet these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding Russian - Advanced	Z ofessional langua Z and use of basic of Z in a simple way a Z at meets at school ofessional langua Z o describe experi	2 age) 2 expression 2 expression 2 or in his/hage. 2 eiences and 2 eiences and 2 eiences and 2 eiences are 2 expressing
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2046156	English Conversation Improving communicative skills in speaking on general topics and general technical topics.	Z	2
2046161	Presentations in English Preparing students to present in English on technical topics, with a possible co-operation with specialized departments	Z	2
2046162	Presentations in German	Z	2
2046163	Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Presentations in French language	Z	2
	Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		1
2046164	Presentations in Russian Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.	Z	2
2046165	Presentations in Spanish Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	Z	2
2046166	Presentations in Czech	Z	2
2121023	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departs Thermodynamics	nents.	5
	th a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Ba	1	_
	y are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with		-
Heat transfer cov	rers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and problems and experimental technique.	d labs are devoted	to practical
2131002	Engineering Design II	Z.ZK	4
	Engineering Design II BPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	,	1
-	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice th	-	
2131005	History of Technology	ZK	3
	human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is		
	special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the	narrower sense of	the word.
2131519	Machine Elements for Technology	Z,ZK	5
2132001	Engineering Design I.	KZ	2
	Basic of technical representation, dimensioning and tolerancing		
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4
	rical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors,		
Analogue and	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machine DC-machines	es. Synchronous ma	acrimes.
2144062	Technical Indonesian - Course II.	Z,ZK	3
2144002	Basic of Indonesian Language for Student Exchange Program to Indonesia	2,21	1 3
2146060	Indonesian Language Course for Exchange	Z	2
	Basic of Indonesian Language for Student Exchange Program to Indonesia	1	'
2146061	Technical Indonesian - Course I.	Z	2
	Second part of Indonesian Language for Student Exchange Program to Indonesia	•	•
2182019	Chemistry	KZ	3
	ry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties		-
phase equilibriun	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and bioch- oriented upon the material properties measurement.	emistry. Laboratory	practice is
2311004	Mechanics for Technology	Z,ZK	7
2321039	Materials Science II.	Z,ZK	4
	Waterials Science II. netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and		1
T dildamontalo of fi	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of mate		r processing,
2321067	Technical Application of Materials	Z,ZK	5
	aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trei		1
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	e 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, defe		
	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations,		
2322091	Project	KZ	2
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and	-	
with particular e	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment knowledge or results.	or evaluate filtrerit	Obtained
2331071	Automation of Production Processes	Z,ZK	5
	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechaniza	1	1
	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers.		
0000004	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.	177	Τ
2332091	Project	KZ	2
2341001	Metrology	Z,ZK	5
	ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and sec ordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struc	-	
1, 2, Oliu 0 00	Measurement automatisation.	o rougililess, v	
2341002	Cutting tools	Z,ZK	4
	racteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination an	1	I
elements design.	Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, mil	ling tools, etc.). Spe	ecial cutting
	tools. Grinding, use and maintenance of cutting tools.		

2341068	Special machining technology	Z,ZK	5		
Development o	f cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, e	ngineering econon	nics and		
ecology.Influence of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics, grinding difficult-materials.					
Expert, adaptive and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finishing methods. Technology in					
2011515	the aerospace industries, automotive, energy and other areas.	7.71			
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 Pard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the des				
-	nnical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the				
man respect to test	of performed activity.	, , , p o o. p. ooooo o			
2342005	Quality Control	KZ	2		
Basic quality contr	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statist	cal process contro	l, statistical		
san	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ntrol 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 informa	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 these				
2372041	Computer Support for Study	KZ	3		
	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	-			
2381002	Fundamentals of Economics	Z,ZK	5		
	r undarrientals of Economics sed on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operatin	, ,			
	d macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different mark	=	- 1		
2381068	Cost Accounting	Z.ZK	5		
	ents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge	, ,			
individual achievem	nents (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). E	mphasis is laid on	the relation		
	hole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budget	-			
	ms) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also mode		-		
subject Cost Accou	inting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate	products, which are	e compared		
2204075	with the market price and finding out as their profitability, so their acceptability or unacceptability manufacturing program.	7 71/			
2381075	Enterprise Management and Economics	Z,ZK	5 4		
2381098	Enterprise Finance ing of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders	Z,ZK			
	application in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and j	_			
	eir role in the development of future plans for a business and in the assessing the impact of management decision on the performance				
factors which must	be taken into account when managing the working capital of a business, various aspects of financing the business through external a	ind internal source	s of finance		
available to	a business, ways how business can make decision and evaluation involv-ing investments in new technology, and various aspects of r	nergers and takeo	vers.		
2381107	Engineering Ergonomy	Z,ZK	4		
-	ect engineering ergonomics is to become acquainted with the problems, constraints and the optimal solution of the fundamental unit of	•	- 1		
	n - man - technology (machine) - environment. The character of the subject is going out from the anthropocentric principle, i. e. that ev				
_	inaging, technological, designing so in other spheres it is important unambiguously to accommodate them to the possibilities, abilities n man. The students will learn not only to start from the man?s limitations during the designing of the MTE system, but also evaluate				
-	sign rationalization measures for its optimization. The mission of the subject is that the students will be able in their work on all levels of	_			
	ng for themselves and for the users of the designed systems as well as for their subordinates. The not-excludable output is also the he	=			
	and productivity of labour.				
2382048	Statistical and Decision Analysis	KZ	4		
Statistical analysis	s is a good basis for a creation of decision-making models. The goal of this subject is to teach students to apply the selected statistical	ıl method, to apply	models of		
	decision analysis, to create models for the management of industrial enterprises.				
2382091	Specialization Project	KZ	2		
2383001	Fundamentals of Law	Z	2		
Basic orientation in	n legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	e a view into the C	zech Legal		
•	purces of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is not be a significant legal regulation of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is not be a significant legal regulation of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is not be a significant legal regulation of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is not be a significant legal regulation of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is not be a significant legal regulation of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations.	-			
=	ins, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.				
leads students to k	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	snips and to make	lileili ready		
2383008	Managerial Psychology	Z	2		
2383009	Communication and Dealing with People	Z	2		
	cation represents an irreplaceable phenomenon in human activity, as it is present in practically all of his activities. The same applies (v				
	the activities of managers. So you can't not communicate - you can only communicate badly, well and excellently.		,		
2383019	Philosophical Issues Of Individual and Science	Z	2		
2383102	Personnel Management	 Z	2		
	n resource management is concerned with the effective management of people at work. Subject examines what can or should be do				
	e satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the hum				
K331068	Technology I	Z,ZK	5		
Foundry properties	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form		mi-products,		
	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brasing. Surface treatmen	t.			

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 http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-19, time 09:16.