Study plan

Name of study plan: 13 80 85 00 DVES 2012 P úvodní studijní plán

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 full-time

Required credits: 233

Elective courses credits: -52 Sum of credits in the plan: 181

Note on the plan: SP12BVES-EKO-P # první pokus

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 224

The role of the block: P

Code of the group: 12BVP4P

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

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

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

Credits in the group: 22 Note on the group:

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

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

2381075	Enterprise Management and Economics	Z,ZK	5		
2383102	Personnel Management	Z	2		
Personnel / human re	source management is concerned with the effective management of people at work. Subject examines what can or should be	done to make pe	pple both more		
productive and more	satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the	human resources	of organizations.		
2342005	Quality Control	KZ	2		
Basic quality control	erms, 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 r	nethods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality control syster	ns.			
2341014	Technology II.	Z,ZK	5		
mechanics of chip formation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining economics. Automation of processes,					
programming of man	programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.				

Code of the group: 12BV*5P

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

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

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

Credits in the group: 11 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2131519	Machine Elements for Technology Martin Dub, Eliška Cézová, Zden k ešpíro, Martin Havlí ek, Ji í Houkal, Jan Kanaval, František Lopot, Ond ej Što ek, Roman Uhlí 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 Václav Pilik Václav Pilik (Gar.)	Z	2	1P+1C	*	Р

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

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.

Introduction to Electrical Engineering for Technology

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

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

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

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

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

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

Credits in the group: 18 Note on the group:

Code	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
2381514	Project management	Z,ZK	4	2P+2C	*	Р
2381059	Industrial Marketing Št pánka Uli ná Št pánka Uli ná (Gar.)	Z,ZK	5	3P+1C	*	Р
2381504	Accounting Theodor Beran Theodor Beran (Gar.)	Z,ZK	4	2P+2C	*	Р

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

2381514	Project management	Z,ZK	4
2381059	Industrial Marketing	Z,ZK	5
2381504	Accounting	Z,ZK	4

The objective of the subject is to become acquainted with the significance of accounting for enterprise management, with the content and formal structure and realization of the stages and changes of the economic results during the accounting period; further with accounting as a system needful for tax declaration and not least as a resource to financial analysis. The stress is laid on understanding the dichotomy as the basis of the double entry accounting system, which distinguishes the terms assets (in the long term and short term) and liabilities (share-holders? equity, liabilities). Of great importance is the assessing of assets and their parts. Ac-counting relates to other information subsystems as budgeting, cost accounting, short term and long term planning. There are further some other subjects concerning enterprise manage-ment, connected with accounting, especially in the field of financial management. Accounting is one of the fundamental instrument of a business manager who understands the content and structure of the balance sheet, profit and loss account and the cash/flow statement. It is very possible that some of the students will exploit the knowledge of accounting in their future occupation as managers, financial directors, in consulting firms and auditing companies.

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

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

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

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

Credits in the group: 18 Note on the group:

Code	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
2341001	Metrology Libor Beránek, Petr Mikeš Pavel Novák	Z,ZK	5	2P+0C+2L	*	Р
2331505	Welding Technology Ladislav Kola ík, Marie Kola íková, Pavel Rohan Ladislav Kola ík Ladislav Kola ík (Gar.)	Z,ZK	4	2P+1C	*	Р
2322041	Heat treatment Jana Sobotová, Martin Ku ík Jana Sobotová Jana Sobotová (Gar.)	KZ	4	2P+1C	*	Р

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

2341001	Metrology	Z,ZK	5				
Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measurement							
in 1, 2, end 3 coordina	tes. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struc	ture - roughness,	wawiness.				
Measurement automat	isation.						
2331505	2331505 Welding Technology Z,ZK 4						
2322041 Heat treatment KZ 4							
Theoretical fundamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion focused on the given topic							

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

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

Requirement credits in the group: In this group you have to gain 17 credits

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

Credits in the group: 17 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2342032	Automation of machine tool programming 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

2341001	Metrology	Z,ZK	5				
Metrology, intergration in	Metrology, intergration into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondary standarts. Measurement						
in 1, 2, end 3 coordinate	es. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struc	ture - roughness,	wawiness.				
Measurement automatis	sation.						
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 i	n terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and me	ethodology of des	gning machining				
processes with regard t	processes with regard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the designing of assembly processes						
with respect to technical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the type of process and the type							
of performed activity.	of performed activity.						

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

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

Requirement credits in the group: In this group you have to gain 17 credits

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

Credits in the group: 17 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) Surface Treatment Technology Viktor Kreibich, Ji í Kucha Ji í Kucha 2332038 ΚZ 1P+2C Ρ Viktor Kreibich (Gar.) Welding Technology Ladislav Kola ík, Marie Kola íková, Pavel Rohan Ladislav Kola ík Ladislav 2331505 Z,ZK 4 2P+1C Р Kola ík (Gar.)

2322041	Heat treatment	K7	4	2P+1C	*	ь
20220-1	Jana Sobotová, Martin Ku ík Jana Sobotová Jana Sobotová (Gar.)	I\Z	-	21 1 10		'

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

2331505	Welding Technology	Z,ZK	4				
2322041	Heat treatment	KZ	4				
Theoretical fundamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion focused on the given topic							
2332038	Surface Treatment Technology	KZ	4				

TPU The course is an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution and its species. TPU focuses on corrosion protection in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discussed technologies finishes include coating technologies (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ecological aspects, Technological design and testing in the field of surface treatment.

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 Ladislav Kola ík, Viktor Kreibich, Ji í Kucha, Jaroslav ervený, Aleš Herman, 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 Z,ZK

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

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-EKO

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

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

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

Credits in the group: 21

Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2383993	Bachelor Thesis Ladislav Vaniš, Barbora Stieberová, Jan Lhota František Freiberg František Freiberg (Gar.)	Z	5	0P+6C	*	Р
2381712	Managerial Counting Miroslav Žilka	Z,ZK	4	2P+2C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2381107	Engineering Ergonomy Ladislav Vaniš Jan Horeic (Gar.)	Z,ZK	4	2P+2C	*	Р

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

2383993	Bachelor Thesis	Z	5	
Work on specialized tas	ks related to the focus of a thesis.		•	

2381712 Managerial Counting Z,ZK 4

The course is oriented to project management approach. During the course are solved cases that respond to practical situations. The cases are stressed on cost-returns calculations, on the solving interactions among costs, capacity of resources and the price. And also on the calculation typical kinds of variations and their explanation and the selection of the appropriate managerial decision. The students are concerning on the right way of operational budget creation and assessment. The link on the internal company accounting is shown and explain. The computerized models are used by explanation.

2381174	Enterprise Information Systems	Z,ZK	4
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.

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

Name of the group: 16 2012 BVES 6.sem zam MAT 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
2323993	Bachelor Thesis Jana Sobotová	Z	5	0P+6C	*	Р
2321501	Ji í Janovec, Jakub Horváth, Lucie Pilsová Jana Sobotová Jakub Horváth (Gar.)	Z,ZK	4	3P+1C	*	Р
2381174	Enterprise Information Systems Vladimír Brdek	Z,ZK	4	2P+2C	*	Р
2321503	Technical testing of materials Ji í Cejp, Elena ižmárová Elena ižmárová (Gar.)	Z,ZK	5	2P+2C+0L	*	Р

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

2381174	Enterprise Information Systems	Z,ZK	4
2323993	Bachelor Thesis	Z	5
2321501		Z,ZK	4

The course characterizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the most commonly used types of recently developed materials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability and methods of their designations are also presented.

2321503 Technical testing of materials

Z,ZK

Term and definition of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, test standard. Basic mechanical properties and testing the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in accordance with the relevant standards. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defects in the material.

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

2381107 **Engineering Ergonomy**

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.

2343993 Bachelor thesis

5

Sources of information in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Principles of research and work in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a thesis.

2341002 Cutting tools

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

Special machining technology

Z,ZK

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.

Code of the group: 12BVP6P-TVA

Name of the group: 16 2012 BVES 6.sem zam TVA prez 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:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2333993	Bachelor Thesis Ladislav Kola ík, Marie Kola íková, Pavel Rohan, Viktor Kreibich, Ji í Kucha, Jaroslav ervený, Aleš Herman, František Tatí ek, Jan Suchánek, Ladislav Kola ík Aleš Herman (Gar.)	Z	5	0P+6C	*	Р
2332056	Preparations and Tools František Tatí ek	KZ	3	0P+3C	*	Р
2331065	Design Consideration Bohumír Bedná	Z,ZK	5	3P+1C	*	Р
2331506	Casting and Forming Technology Aleš Herman, František Tatí ek František Tatí ek Aleš Herman (Gar.)	Z,ZK	5	3P+2C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12BVP6P-TVA Name=16 2012 BVES 6.sem zam TVA prez povinné

2333993	Bachelor Thesis	Z	5
2332056	Preparations and Tools	KZ	3
Principles of selection of	of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Produc	ction processes fo	r forgings.
Accuracy, stock materia	ıl, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production pro	cesses for weldm	ents. Operational
and the second second	de agricoment. Dientie manufalinge Individual prejects for production of a continue forging or a stamping		

sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping

Z,ZK

Relations between design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly techniques. Basis for and production technology selection. Component detailing for manufacture. CNC basis and using CNC.

2331506 Casting and Forming Technology

Design Consideration

Z,ZK

Principles of selection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production processes for forgings, extrusion. Accuracy, stock material, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping.

Code of the group: 12DVP1P-KMEN

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

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

Credits in the group: 0

Note on the group:

12B**1P-KMEN #

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2182019	Chemistry Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna, Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	KZ	3	2P+1C	1	Р
2011021	Constructive Geometry Ivana Linkeová	Z,ZK	6	3P+2C	*	Р
2383008	Managerial Psychology	Z	2	1P+1C	*	Р
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
2372041	Computer Support for Study	KZ	3	1P+1C	*	Р
2132001	Engineering Design I. Karel Petr	KZ	2	1P+2C	1	Р
2131005	History of Technology	ZK	3	2P+0C	1	Р

2182019	Chemistry	KZ	3
General chemistry	from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure	and properties of matter, therm	nodynamics,
ohase equilibrium,	, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymer	rs) and biochemistry. Laborator	y practice is
oriented upon the i	material properties measurement.		
2011021	Constructive Geometry	Z,ZK	6
The subject is focu	used on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.		
2383008	Managerial Psychology	Z	2
2011056	Mathematics I	Z,ZK	8
2011056 In the course, grea	Mathematics I ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships	, , ,	_
In the course, grea		and connections between con	cepts. Studen
In the course, grea will also get to knov	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships	and connections between con	cepts. Studen
In the course, grea will also get to know of a matrix, Taylor	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships w the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some t	and connections between con	cepts. Studen
In the course, grea will also get to know of a matrix, Taylor p 2372041	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships w the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some t polynomial, integral as a limit function, integration of some special functions.	s and connections between con hematic areas: eigennumbers a	ncepts. Studen and eigenvecto
In the course, grea will also get to know of a matrix, Taylor p 2372041 The course introdu	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships with the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some to polynomial, integral as a limit function, integration of some special functions. Computer Support for Study	s and connections between con thematic areas: eigennumbers a KZ mputations with the use of comp	acepts. Studen and eigenvecto 3 outers. Studen
in the course, grea will also get to know of a matrix, Taylor I 2372041 The course introdu gain practical skills	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships with the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some to polynomial, integral as a limit function, integration of some special functions. Computer Support for Study Luces students into creating technical and professional documents on computers or Web and into realizing technical corticols.	s and connections between con thematic areas: eigennumbers a KZ mputations with the use of comp	acepts. Studen and eigenvecto 3 outers. Studen
in the course, grea will also get to know of a matrix, Taylor p 2372041 The course introdu gain practical skills 2132001	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships with the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some to polynomial, integral as a limit function, integration of some special functions. Computer Support for Study Locus students into creating technical and professional documents on computers or Web and into realizing technical cores by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating the content of the con	s and connections between conthematic areas: eigennumbers a KZ mputations with the use of comping technical-based WWW pag	acepts. Studen and eigenvecto 3 outers. Studen e.
in the course, grea will also get to know of a matrix, Taylor p 2372041 The course introdu gain practical skills 2132001	ater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships with the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some to polynomial, integral as a limit function, integration of some special functions. Computer Support for Study success tudents into creating technical and professional documents on computers or Web and into realizing technical cores by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical Design I.	s and connections between conthematic areas: eigennumbers a KZ mputations with the use of comping technical-based WWW pag	acepts. Studer and eigenvecto 3 outers. Studer e.

Code of the group: 12DVP2P-KMEN

Name of the group: 00 2012 D kmenové 2. semestr VES prezen ní

Requirement credits in the group: In this group you have to gain 25 credits

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

Credits in the group: 25

Note on the group: 12B**2P-KMEN#

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021041	Physics I.	Z,ZK	7	4P+1L	*	Р
2011062	Matematika II. Radka Keslerová	Z,ZK	8	4P+4C	*	Р
2322029	Materials Science I. Jana Sobotová, Jakub Horváth, Lucie Pilsová, Ji í Cejp, Elena ižmárová, Jakub Horník, Pavlína Hájková, Stanislav Krum, Jan Kr il, 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
2333017	Surface Treatment Jan Kudlá ek	Z	3	1P+1C	*	Р
2131002	Engineering Design II Martin Dub, Martin Havlí ek, Jan Kanaval, Jan Flek, Karel Petr, Marek Štádler, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2333038	Fundamentals of Technology I. Marie Kola íková	Z	3	1P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12DVP2P-KMEN Name=00 2012 D kmenové 2. semestr VES prezen ní

2021041

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

2011062 Z,ZK Matematika II.

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

2322029 Materials Science I.

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

2012037 Computer Graphics K7 3 2333017 Surface Treatment 3

Introduction to the surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevention in manufacturing, method anticorrosive prevention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. Organic coatings. Ecological aspects of surface treatments

2131002 Engineering Design II

Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance, dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures

2333038 Fundamentals of Technology I. 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.

Code of the group: 12DVP3P-KMEN

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

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

Credits in the group: 0

Note on the group:

12BV*3P-KMEN-R #

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. Jana Sobotová, Martin Ku ík, Ji í Janovec, Jakub Horváth, Lucie Pilsová, Ji í Cejp, Elena ižmárová, Jakub Horník, Jan Walter, Stanislav Krum Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Р
2331068	Technology I. Jan Kudlá ek	Z,ZK	5	2P+2C	*	Р
2121023	Thermodynamics	Z,ZK	5	3P+2C	*	Р

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

2021025	Physics II.	Z,ZK	4				
Faraday's law of electron	araday's law of electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interactio						
of radiation with matter.	Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a	nd periodic syste	m of elements.				
Spectra, x-rays, ;laser. I	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments relate	d to the lectures.				
2011009	Mathematics III	Z,ZK	5				
An introductory course	in ordinary differential equation and infinite series.	,					
2311004	Mechanics for Technology	Z,ZK	7				
2321039	Materials Science II.	Z,ZK	4				
Fundamentals of metal	Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing,						
technical iron-carbon al	lloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.						
2331068	Technology I.	7.7K	5				

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

2121023 Thermodynamics

Z,ZK 5

The course deal with a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Basic concepts and principles are introduced, and they are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with an emphasis on psychometrics. Heat transfer covers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and labs are devoted to practical problems and experimental technique.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 9

The role of the block: PV

Code of the group: 12BV*4Q-BZJ VES

Name of the group: 11 2012 bakalá ské zkoušky z jazyk pro VES

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

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

Credits in the group: 2 Note on the group:

Note on the gro	Jup.					
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 VFS

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

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

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

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

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

Credits in the group: 5

Note on the group:

	g 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
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

to so called macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different markets and competitions.

| 2321067 | Technical Application of Materials | Z,ZK | 5 |
| P edm t popisuje aplikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.

| 2381002 | Fundamentals of Economics | Z,ZK | 5 |
| The course is focused on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating of the economics according

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

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

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

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

Credits in the group: 2 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jana Sobotová, Ji í Janovec, Jakub Horváth, Ji í Cejp, Elena ižmárová, Jakub Horník, Pavlína Hájková, Stanislav Krum, Jan Kr il, 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 Ladislav Kola ík, Marie Kola íková, Pavel Rohan, Tomáš Gur ík, Viktor Kreibich, Ji í Kucha, Jaroslav ervený, Aleš Herman, František Tatí ek, Ladislav Kola ík Aleš Herman (Gar.)	KZ	2	0P+2C	*	PV
2342091	Project Libor Beránek, Michal Koptiš, Petr Mikeš, Jan Šimota, Jan Urban, Ji í Kyncl, Tomáš Kellner, Martin Kyncl, 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	In the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literatur							
with particular empl	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 result	knowledge or results.							
2382091	Specialization Project	KZ	2					
2332091	Project	KZ	2					

 2382091
 Specialization Project
 KZ
 2

 2332091
 Project
 KZ
 2

 2342091
 Project
 KZ
 2

 Work on specialized tasks.
 KZ
 2

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

The role of the block: V

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

Name of the group: 02 2012 ALFA volitelné pro VES

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

Credits in the group: 0 Note on the group:

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

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

waves. I luiu mechanica	s. remperature and heat transfer. Minetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Oc	muuciors, semico	nductors,			
insulators. Magnetic fie	nsulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression,					
measurements of 11 va	neasurements of 11 various experiments related to the lectures.					
201A021	Constructive Geometry A	ZK	3			
The subject is focused	on geometric objects in the space - curves, surfaces and solids and their properties and mutual relations.	•	'			
201A056	Mathematics I.A	ZK	4			
Introduction to linear al	gebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable					

Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations,

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

Mathematics II.A

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:

202A041

201A062

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

ZK

(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 quarantors (gar.)	Completion	Credits	Scope	Semester	Role
2026016	Physics - Seminar	Z	2	0P+2C	1	V
2016007	Mathematics I Seminar Radka Keslerová, Olga Mailingová 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	Z	2
The subject is mainly n	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:

Note on the gr	<u>_</u>	r				
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	*	V
2046156	English Conversation Michele Le Blanc, Eliška Vítková, Ilona Šimice, Nina Procházková Ayyub Nina Procházková Ayyub	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 Vitková, 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. Jaroslava Kommová	Z	2	0P+2C	L	V
2046086	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046087	French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská	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 Vitková, 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 Vitková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046081	German - Upper Intermediate Course Eliška Vítková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Eliška Vítková	Z	2	0P+2C	L	V
2046080	German - Upper Intermediate Course Eliška Vitková, Michaela Schusová, Jaroslava Kommová, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Eliška Vitková, 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.)	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 Vítková, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	*	V
2046165	Presentations in Spanish Eliška Vitková Eliška Vítková	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	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046140	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046139	Russian - Upper Intermediate Eliška Vitková, 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

2046155			
	English Conversation		2
· •	titive skills in speaking on general topics and general technical topics.	,	,
2046156	English Conversation	Z	2
Improving communication	ative skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
Mapped to the Comm	on European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations whicl	h a student meets	either at school
or at his/her free time	and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improven	nent of profession	al language.
2046070	English - Lower Intermediate	Z	2
Aim: Understanding of	learly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about th	em. Writing in a si	nple way about
familiar topics. Readir	ng and comprehension of simple texts. Improvement of professional language. A1 - A2.		
2046074	English - Advanced	Z	2
The aim: comprehens	ion of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Wri	tten and oral skills	on advanced
level. Ability to write a	summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's five	eld of studies with	out difficulties.
Grammar structures	on advanced level. B1 - B2.		
2046075	English Advanced		
	English - Advanced	Z	2
Mapped to the Comm	English - Advanced on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in	_	_
		English without gr	eat difficulties
and active participation	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in	English without gr	eat difficulties
and active participation	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compre	English without gr	eat difficulties
and active participation scientific articles or telescope 2046072	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compressits from student's field of studies without difficulties. Grammar structures on advanced level.	English without grehension of popula	eat difficulties ar-scientific and
and active participation scientific articles or telescipation 2046072 The aim is to extend later than the scientific articles or telescipation and active participation active participation and active participation and active participation active participation active participation and active participation active particip	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprexts from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate	English without grehension of popula	eat difficulties ar-scientific and
and active participation scientific articles or telescipation 2046072 The aim is to extend later than the scientific articles or telescipation and active participation active participation and active participation and active participation active participation active participation and active participation active particip	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprexits from student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate anguage skills taking into consideration professional English and common professional terminology. Comprehension of standar	English without grehension of popula	eat difficulties ar-scientific and
and active participatic scientific articles or to 2046072 The aim is to extend labout topics of every 2046073	on European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an adiscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate anguage skills taking into consideration professional English and common professional terminology. Comprehension of standarday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.	English without grehension of popular Z d English speech	and conversation
and active participatic scientific articles or te 2046072 The aim is to extend la about topics of everyor 2046073 Mapped to the Comm	con European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an adiscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate anguage skills taking into consideration professional English and common professional terminology. Comprehension of standarday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate	English without greension of popular Z d English speech	and conversation 2 and conversation 2 n professional
and active participatic scientific articles or te 2046072 The aim is to extend la about topics of everyor 2046073 Mapped to the Comm	con European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an adiscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate anguage skills taking into consideration professional English and common professional terminology. Comprehension of standarday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate	English without greension of popular Z d English speech	and conversation 2 and conversation 2 n professional
and active participatic scientific articles or te 2046072 The aim is to extend la about topics of everyor 2046073 Mapped to the Commeterminology. Comprehense	con European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in an adiscussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of student's field of studies without difficulties. Grammar structures on advanced level. English - Upper Intermediate anguage skills taking into consideration professional English and common professional terminology. Comprehension of standarday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. English - Upper Intermediate	English without greension of popular Z d English speech	and conversation 2 and conversation 2 n professional

2046069	English - Beginners	Z	2
	n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa minology (professional language).	nding and use of b	asic expression
2046126	Czech Lower Intermediate	Z	2
•	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	iem. Writing in a sir	nple way about
	and comprehension of simple texts. Improvement of professional language.	7	2
2046125	Czech Lower Intermediate arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	Z nem Writing in a sir	Dole way about
	and comprehension of simple texts. Improvement of professional language.	ioni. Whang in a on	iipio way about
2046118	Czech -Advanced	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in	_	
	discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe is from student's field of studies without difficulties. Grammar structures on advanced level.	nsion of popular-so	cientific and
2046117	Czech -Advanced	Z	2
	cen language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation is	_	-
Written skills. Ability to	write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical	articles.	
2046127	Czech - Upper Intermediate	Z	2
-	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	ility to describe exp	eriences and
2046128	ne's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	7	2
	n European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration profession	al Czech and comr	_
terminology. Comprehe	nsion of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on inte	ermediate level. Bro	adening the
knowledge technical la			
2046119	Czech Language for Beginners I. Bryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	Z	2
2046120	Pryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (protection of the control of the con	7	2
	। Ozect Language for Beginners II. n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understa	l ← unding and use of b	_
* *	minology (professional language).		
2046086	French - Lower Intermediate Course	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	/riting in a simple w	ay about familia
topics. Reading and co	mprehension of simple texts. Improvement of professional language.	Z	2
	French - Lower Intermediate Course Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations whic	_	_
	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046091	French - Advanced	Z	2
	Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on t	•	
	tive speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading a ular scientific and technical articles.	and understanding	texts concernin
2046090	French - Advanced	7	2
	ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participati	_	l
opinions. Written skills.	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and	technical articles.	
2046089	French - Upper Intermediate	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students Iking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and unders		
2046088	French - Upper Intermediate	7	2
	d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ab	_	l
events, briefly explain	one's opinions and plans. Reading and understanding general and technical texts.		
2046084	French - Beginners	Z	2
	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W mprehension of simple texts. Improvement of professional language.	/riting in a simple w	ay about familia
2046085	French - Beginners' Course	Z	2
	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations whic	_	l
his/her free time and s	peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	t of professional lar	nguage.
2146060	Indonesian Language Course for Exchange	Z	2
	nguage for Student Exchange Program to Indonesia		
2146061	Technical Indonesian - Course I.	Z	2
2144062	ian Language for Student Exchange Program to Indonesia Technical Indonesian - Course II.	Z,ZK	3
	nguage for Student Exchange Program to Indonesia	2,210	J 3
2046078	German - Lower Intermediate Course	Z	2
Aim: Understanding cle	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	nem. Writing in a sir	nple way about
· · ·	and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
* *	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations wh nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvem		
2046083	German - Advanced Course	Z	2
	Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given	ı	l
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comp	rehension of popul	ar-scientific and
	ts from student's field of studies without difficulties. Grammar structures on advanced level.		
scientific articles or tex			_
scientific articles or tex	German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participa	Z	2 Everessing

2046081	German - Upper Intermediate Course	Z	2
Mapped to the level of	f Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students	comes across at wo	ork, at school,
during free time, and	talking about these topics. Ability to describe experiences and events, explain one´s opinions and plans. Reading and unders	tanding general and	technical texts.
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. Ab	ility to describe exp	eriences and
1	one's opinions and plans. Reading and understanding general and technical texts.	,	
2046076	German - Beginners	Z	2
	veryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profe	1 1	_
2046077	German - Beginners	7	2
1	german - beginners common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding	_	
	ninology (professional language).	y and use of basic e	expressions of
		7	
2046161	Presentations in English	Z	2
	present in English on technical topics, with a possible co-operation with specialized departments.		
2046166	Presentations in Czech	Z	2
Preparing students to	give presentations in English on technical topics, with a possible co-operation with specialized departments.		
2046162	Presentations in German	Z	2
Preparation for prese	nting technical topics in German, possibly in cooperation with specialized departments.		
2046164	Presentations in Russian	Z	2
	nting technical topics in Russian, possibly in cooperation with specialized departments.	_	_
2046163	Presentations in French language	Z	2
	nting technical topics in French, possibly in cooperation with specialized departments.		۷
		7	
2046165	Presentations in Spanish	Z	2
	nting technical topics in Spanish, possibly in cooperation with specialized departments.		
2046137	Russian - Lower Intermediate Course	Z	2
Understanding clearly	what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. W	riting in a simple wa	ay about familiar
topics. Reading and o	omprehension of simple texts. Improvement of professional language.		
2046138	Russian - Lower Intermediate Course	Z	2
Mapped to the level of	f Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a s	tudent meets at sch	nool or in his/her
free time and speaking	g about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of prof	essional language	
	g about them triting in a employing about lammar topics recasing and completions of employeement of pro-	coolonal language.	
	Russian - Advanced	Z	2
2046141		Z	
2046141 Comprehension of sp	Russian - Advanced	Z tion in discussions.	
2046141 Comprehension of sp opinions. Written skills	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participas. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and the students.	Z tion in discussions.	Expressing
2046141 Comprehension of sp opinions. Written skills 2046142	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participas. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced	Z Intion in discussions. technical articles.	Expressing 2
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participas. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced f Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on	Z Ition in discussions. technical articles. Z topics familiar to th	Expressing 2 e student.
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of Communication with a	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced 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	Z Ition in discussions. technical articles. Z topics familiar to th	Expressing 2 e student.
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of Communication with a currant issues and possible communication.	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced 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.	Z Ition in discussions. Itechnical articles. Z Itopics familiar to the and understanding to	2 e student.
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of Communication with a currant issues and por 2046140	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced 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. Russian - Upper Intermediate	Z Ition in discussions. Itechnical articles. Z Itopics familiar to the and understanding to	Expressing 2 e student. exts concerning
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of Communication with a currant issues and potential currant issues and potentia	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and Russian - Advanced 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. Russian - Upper Intermediate f Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student	Z Ition in discussions. Itechnical articles. Z Itopics familiar to the and understanding to the angle of th	Expressing 2 e student. exts concerning 2 chool, during
2046141 Comprehension of sp opinions. Written skills 2046142 Mapped to the level of Communication with a currant issues and po 2046140 Mapped to the level of free time, and talking	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and a Russian - Advanced 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. Russian - Upper Intermediate f Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding and understanding standard speech about familiar matters that a student about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding standard speech about familiar matters that a student about these topics.	Z Ition in discussions. Itechnical articles. Z Itopics familiar to the and understanding to the angle of th	2 e student. exts concerning 2 chool, during I technical texts.
2046141 Comprehension of spopinions. Written skills 2046142 Mapped to the level of Communication with a currant issues and potential comprehension of the level of the time, and talking 2046139	Russian - Advanced oken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participals. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and a Russian - Advanced 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. Russian - Upper Intermediate f Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understanding Russian - Upper Intermediate	Z Ition in discussions. Itechnical articles. Z Itopics familiar to the and understanding to the articles at work, at standing general and Z	Expressing 2 e student. exts concerning 2 school, during I technical texts. 2
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List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
'	An introductory course in ordinary differential equation and infinite series.	'	'

2011021	Constructive Geometry	Z,ZK	6
2011056	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation. Mathematics I	z,ZK	8
	remphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	•	1
_	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: ei		
2011062	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions. Matematika II.	Z,ZK	8
	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti	•	1
	unction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, l		,
- ·	cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector Gauss-Ostrogradskij theorem.	· ·	
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
20171021	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relatic		1
201A056	Mathematics I.A	ZK	4
'	Introduction to linear algebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable		'
201A062	Mathematics II.A	ZK	4
="	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differenti		
	unction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral, l cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Greer		
	e of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector		
, ,	Gauss-Ostrogradskij theorem.	J	
2021025	Physics II.	Z,ZK	4
-	tromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of elec	_	
	atter. Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and		
	er. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 exper		
2021041	Physics I. amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro	Z,ZK perties of bodies	Oscillations
-	chanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	•	
	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.		
2026016	Physics - Seminar	Z	2
	The subject is mainly meant for high-school students for repetition of high-school physics.		
202A041	Physics I.	ZK	3
	amics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic pro chanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Co	-	
	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.		-
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Comm	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part ir	ı discussions,
2044000	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	7 71/	
2041062	German - Bachelor Exam / FME non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	Z,ZK	discussions
mapped to the Comin	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	ies, to take part ii	discussions,
2041063	French - Bachelor Exam /FME	Z,ZK	2
	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult		
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
Mapped to the Comm	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult	ies, to take part ir	discussions,
2041065	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Russian - Bachelor Exam / FME	Z,ZK	2
	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficult		1
	to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2046068	English - Beginners	Z	2
Aim: Basic vocal	bulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	ıage). A1
2046069	English - Beginners	Z	2
Mapped to the Comm	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	and use of basic	: expressions
2046070	of general scientific terminology (professional language).	7	Τ ο
2046070	English - Lower Intermediate clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Z Writing in a simp	2 le way about
, with Officerstationing	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.	vviimiy iii a Siiilp	o way about
2046071	English - Lower Intermediate	Z	2
	mon European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a s		1
	ime and speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improveme		
2046072	English - Upper Intermediate	Z	2
The aim is to extend	language skills taking into consideration professional English and common professional terminology. Comprehension of standard En		conversation
	about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 -		

2046073 Mapped to the Co	Francisk I I have between dieta	7	2
Mapped to the Co	English - Upper Intermediate	Z	2
	mmon European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional Engli	-	
terminology. Compr	ehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermedia	ate level. Broadenir	ng grammar
	knowledge.		
2046074	English - Advanced	Z	2
	pension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writter	I	
•	te a summary, a report, an essay, reading and comprehension of popular-scientific and scientific articles or texts from student's field		
level. Ability to wil		oi studies without t	unicunies.
	Grammar structures on advanced level. B1 - B2.		
2046075	English - Advanced	Z	2
Mapped to the Co	ommon European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in Eng	glish without great	difficulties
and active particip	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and compreher	sion of popular-sc	ientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046076	German - Beginners	Z	2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rolessional languaç	-
2046077	German - Beginners	Z	2
Mapped to the leve	el Common European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding an	d use of basic expr	ressions of
	general scientific terminology (professional language).		
2046078	German - Lower Intermediate Course	Z	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
Airi. Onuerstandin	• • • • • • • • • • • • • • • • • • • •	willing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046079	German - Lower Intermediate Course	Z	2
Mapped to the leve	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er at school
or in his/her free	time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer	nt of professional la	inguage.
2046080	German - Upper Intermediate Course	7	2
	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	_	
Uniderstanding Sta		to describe exherit	onices 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	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com	es across at work,	at school,
during free time, an	d talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding	ng general and tecl	hnical 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, participation		
-			
	Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046083	German - Advanced Course	Z	2
Mapped to the leve	l of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge	erman without grea	t difficulties
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 comprehei	nsion of popular-so	cientific and
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046084	French - Beginners	7	2
	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing		_
Officerstanding clea		iii a siiripie way at	Jour Iamiliai
	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046085	French - Beginners' Course		2
		Z	
Mapped to the lev	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	I.	chool or in
	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	student meets at s	
his/her free tim	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	student meets at s	guage.
his/her free tim	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Lower Intermediate Course	student meets at so of professional lan Z	guage.
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his/her free tim 2046086 Understanding clea 2046087	e and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement French - Lower Intermediate Course rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	student meets at so of professional lan Z in a simple way ab	guage. 2 pout familiar
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2046099	Spanish Lawer Intermediate	Z	2
	Spanish - Lower Intermediate of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studen	_	1
	d speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p		
2046117	Czech -Advanced	Z	2
	poken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc		sing opinions.
	n skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		
2046118	Czech -Advanced of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec	Z	2
	n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	-	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
Basic vocab	oulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langu	age)
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Comr	mon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding	g and use of basi	expressions
0040405	of general scientific terminology (professional language).	_	
2046125	Czech Lower Intermediate	Z	2
Aim: Understanding	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	writing in a simp	ie way about
2046126	Czech Lower Intermediate	Z	2
	clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	1
22	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		,
2046127	Czech - Upper Intermediate	Z	2
Understanding star	ndard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe expe	riences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046128	Czech - Upper Intermediate	Z	2
• • •	mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz		•
terminology. Comp	orehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm knowledge technical language.	lediate level. Broa	adening the
2046135	Russian - Beginners	7	2
	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	_	I
2046136	Russian - Beginners	7	2
ZU40130			
	I of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	_	
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	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	_	
Mapped to the level 2046137	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	and use of basic	expressions 2
Mapped to the level 2046137 Understanding clear	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language.	and use of basic	expressions 2 about familiar
Mapped to the level 2046137 Understanding clear 2046138	of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding of general scientific terminology (professional language) Russian - Lower Intermediate Course ly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing topics. Reading and comprehension of simple texts. Improvement of professional language. Russian - Lower Intermediate Course	and use of basic Z I in a simple way	expressions 2 about familiar
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2121023	Thermodynamics	Z,ZK	5		
	th a basic engineering approach to classical thermodynamics, heat transfer and compressible flow through nozzles and diffusers. Bas		rinciples are		
introduced, and the	y are applied mostly to systems behaving as ideal gases or typical vapours. Basic notions associated with ideal mixtures are studied with a	an emphasis on psy	chometrics.		
Heat transfer covers fundamentals of conduction, convection and radiation. Heat exchangers are treated as an engineering application. Exercises and labs are devoted to practical					
	problems and experimental technique.				
2131002	Engineering Design II	Z,ZK	4		
Principles of ISO G	PS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface	texture, geometrica	al tolerance,		
dimensional loo	ps, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice the	ir knowledge from	lectures.		
2131005	History of Technology	ZK	3		
Developement of	human knowledge in the domain of science and technology in the retrospective of the developement of our civilization. Emphasis is	given upon new br	anches of		
technology with	special attention to the contribution of mining, iron metallurgy, power engineering, transportation and of the machine industry in the r	arrower sense of t	he word.		
2131519	Machine Elements for Technology	Z,ZK	5		
2132001	Engineering Design I.	KZ	2		
	Basic of technical representation, dimensioning and tolerancing		l		
2141204	Introduction to Electrical Engineering for Technology	Z,ZK	4		
	ical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, the		amplifiers.		
	digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines				
_	DC-machines	-			
2144062	Technical Indonesian - Course II.	Z,ZK	3		
2111002	Basic of Indonesian Language for Student Exchange Program to Indonesia	_,			
2146060	Indonesian Language Course for Exchange	Z	2		
2140000	Basic of Indonesian Language for Student Exchange Program to Indonesia	2	_		
24.46064	Technical Indonesian - Course I.	Z	2		
2146061		۷	2		
0400040	Second part of Indonesian Language for Student Exchange Program to Indonesia	147			
2182019	Chemistry	KZ	3		
	y from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties				
phase equilibriun	n, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biocher	mistry. Laboratory	practice is		
	oriented upon the material properties measurement.		_		
2311004	Mechanics for Technology	Z,ZK	7		
2321039	Materials Science II.	Z,ZK	4		
Fundamentals of m	netallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and th		processing,		
	technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materi				
2321067	Technical Application of Materials	Z,ZK	5		
P edm t popisuje a	plikovatelnost jednotlivých skupin inženýrských materiál a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým treno	d m t chto skupin.	The subject		
descri	bes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.			
2321501		Z,ZK	4		
The course chara	cterizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the m	ost commonly use	ed types of		
recently developed	d materials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability and i	methods of their de	esignations		
	are also presented.				
2321503	Technical testing of materials	Z,ZK	5		
Term and definiti	on of properties. Verification of properties in a certified quality management system. Accredited test laboratory and test systems, test	standard. Basic m	echanical		
properties and tes	ting the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in	accordance with t	he relevant		
standar	ds. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defe	ects in the material			
2322029	Materials Science I.	KZ	3		
History and prese	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor	mation, recrystalliz	zation and		
fracture of mate	erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir	on-carbon phase o	diagram.		
2322041	Heat treatment	KZ	4		
Theoretical for	undamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion for	cused on the given	topic		
2322091	Project	KZ	2		
	preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e				
with particular e	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	r evaluate hitherto	obtained		
	knowledge or results.				
2323993	Bachelor Thesis	Z	5		
2331065	Design Consideration	Z,ZK	5		
	n design, production technique and economic aspects. Design considerations in casting, forming, welding, machining and assembly t	,	_		
	and production technology selection. Component detailing for manufacture. CNC basis and using CNC.				
2331068	Technology I.	Z,ZK	5		
	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form				
, , , , , , , , , , , , , , , , , , , ,	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment		,,		
2331071	Automation of Production Processes	Z,ZK	5		
	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat				
	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De				
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.	ga p. 0gii			
2331505	Welding Technology	Z,ZK	4		
2331506	Casting and Forming Technology	Z,ZK	5		
	on of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production pr				
	material, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic mould				
, 1000.000, 01001	production of a casting, forging or a stamping.	goairiadai pi	-,50.0 101		
	production of a caching, forgoing of a diamping.				

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2332038	Surface Treatment Technology	KZ	4
	an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution	•	
·	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discussed	•	
coating technologies	s (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eco design and testing in the field of surface treatment.	ological aspects, Te	echnological
2332056	Preparations and Tools	KZ	3 forgings
· · · · · · · · · · · · · · · · · · ·	ection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Product terial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production process	-	
Accuracy, Stock mai	sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping		Operational
2332091	Project	KZ	2
2333017	Surface Treatment	Z	3
Introduction to the	surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventiention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments.	on in manufacturin	g, method
2333038	Fundamentals of Technology I.	Z	3
iron and steel. Cas	ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techn sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech rging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welc welding and arc welding with coated electrodes. Thermal cutting.	nology. Hot and co	old forging.
2333993	Bachelor Thesis	Z	5
2341001	Metrology	Z,ZK	5
in 1, 2, end 3 coo	on into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secondinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structumessurement automatisation.	ure - roughness, w	awiness.
2341002	Cutting tools	Z,ZK	4
=	racteristics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination and Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, milling) tools. Grinding, use and maintenance of cutting tools.		-
2341014	Technology II.	Z,ZK	5
mechanics of chip for	ormation, cutting processes, finishing operations, non-traditional machining processes. Production rates calculation, machining econom programming of manufacture. Engineering metrology. Assembly techniques. Introduction to process planing.	nics. Automation of	f processes,
2341068	Special machining technology	Z.ZK	5
	cutting material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, en	, ,	
=	of surface layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of ceramics		
Expert, adaptive a	and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finis	hing methods. Tec	hnology in
	the aerospace industries, automotive, energy and other areas.		
2341515	Manufacturing process planning	Z,ZK	4
•	rse in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and metho		٠ .
-	ard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the des inical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the of performed activity.		
2242005	Quality Control	KZ	2
2342005	إ ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti		
	pling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	•	ii, statisticai
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 machinery.		3
2342091	Project Work on appointment tools	KZ	2
2242002	Work on specialized tasks.	Z	
2343993 Sources of information	Bachelor thesis tion in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Pri	inciples of researc	5 h and work
2372041	in laboratories. The principles of work safety in technological devices. Work on specialized tasks related to the focus of a thes		2
1	Computer Support for Study	KZ	3
	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with th Il 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 5
	r undamentals of Economics sed on the following subjects: basic economic relations and consequences. Economic aggregates and their consequences. Operating	, ,	
to so called	macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different mark	ets and competition	ns.
2381059	Industrial Marketing	Z,ZK	5
2381068	Cost Accounting	Z,ZK	5
The subject prese	ents an introduction to the problems of value management as the enterprise on the whole and its parts - centres - by means of budge	eting (expected cos	st), so the
	ents (intermediate products, products, services) - by means of preliminary costing (expected costs) and actual costing (actual costs). E	-	
	nole - enterprise costs - to the costs of individual achievements and the understanding of the transformation from costs in the budgeti		·
	ns) into the costing structure (direct and overhead costs), and fixed and variable costs. There are taught conventional and also mode	* *	-
subject Cost Accou	nting is connected directly with the subject Accounting and represents an introduction to the problems of cost allocation to separate put the market price and finding out so their profitability on their accountability or unaccontability manufacturing program	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
2381098	Enterprise Finance	Z,ZK	4
-	ng of the Enterprise provides a broad-based introduction to financial management. Students have an opportunity to acquire an unders	-	
· ·	ipplication in decision-making. Students gain knowledge of financial management role within a business, financial ratios, nature and pair 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 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. 2381107 Z.ZK **Engineering Ergonomy** 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. 2381174 **Enterprise Information Systems** Z,ZK 4 2381504 Accounting Z,ZK 4 The objective of the subject is to become acquainted with the significance of accounting for enterprise management, with the content and formal structure and realization of the stages and changes of the economic results during the accounting period; further with accounting as a system needful for tax declaration and not least as a resource to financial analysis. The stress is laid on understanding the dichotomy as the basis of the double entry accounting system, which distinguishes the terms assets (in the long term and short term) and liabilities (share-holders? equity, liabilities). Of great importance is the assessing of assets and their parts. Ac-counting relates to other information subsystems as budgeting, cost accounting, short term and long term planning. There are further some other subjects concerning enterprise manage-ment, connected with accounting, especially in the field of financial management. Accounting is one of the fundamental instrument of a business manager who understands the content and structure of the balance sheet, profit and loss account and the cash/flow statement. It is very possible that some of the students will exploit the knowledge of accounting in their future occupation as managers, financial directors, in consulting firms and auditing companies 2381514 Project management Managerial Counting 2381712 Z.ZK The course is oriented to project management approach. During the course are solved cases that respond to practical situations. The cases are stressed on cost-returns calculations. on the solving interactions among costs, capacity of resources and the price. And also on the calculation typical kinds of variations and their explanation and the selection of the appropriate managerial decision. The students are concerning on the right way of operational budget creation and assessment. The link on the internal company accounting is shown and explain. The computerized models are used by explanation. 2382048 Statistical and Decision Analysis ΚZ 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. 2382091 ΚZ Specialization Project 2 2383001 Fundamentals of Law 2 Basic orientation in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provide a view into the Czech Legal Order, particular sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is necessary for students to know our legal institutions, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. At the same time the course

our legal institutions, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws. At the same time the course leads students to know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relationships and to make them ready to prepare professional presentations and to understand basic structures between law and engineering

2383008 Managerial Psychology Z 2

2383102 Personnel Management Z 2 2
Personnel Management Z 2

Personnel / human resource management is concerned with the effective management of people at work. Subject examines what can or should be done to make people both more productive and more satisfied with their working life. Its goal is to help develop more effective managers and staff specialists who work directly with the human resources of organizations.

2383993 Bachelor Thesis
Work on specialized tasks related to the focus of a thesis.

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-18, time 07:50.