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: Welcome page
Type of study: unknown 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
2342005	Quality Control	KZ	2	1P+1C+1L	*	Р
2341014	Technology II.	Z,ZK	5	2P+0C+2L	*	Р

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

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

Code of the group: 12BV*5P

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

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

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

Credits in the group: 11

Note on the group:

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

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

 2141204
 Introduction to Electrical Engineering for Technology
 Z,ZK
 4

 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers.

 Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines.

 DC-machines

2383001 Fundamentals of Law	Z	2
Basic orientation in legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to pro-	ovide a view into t	he Czech Legal
Order, particular sources of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It i		
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 law		
leads students to know some practical habits and processes while putting the law on, especially in domain of contracts and other important legal rela	tionships and to r	nake them ready
to prepare professional presentations and to understand basic structures between law and engineering		
Code of the group: 12BV*5P-EKO		
Name of the group: 14 2012 BVES 5.sem zam EKO povinné		
Requirement credits in the group: In this group you have to gain 18 credits		
Requirement courses in the group: In this group you have to complete 4 courses		
Credits in the group: 18		
Note on the group:		

Code of the group: 12BV*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	Z,ZK	5	2P+0C+2L	*	Р
2331505	Welding Technology	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 coordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface structure - roughness, wawiness.								
Measurement automatisation.								
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	KZ	3	1P+2C	*	Р
2341515	Manufacturing process planning	Z,ZK	4	2P+2C	*	Р
2341001	Metrology	Z,ZK	5	2P+0C+2L	*	Р

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

2341001	Metrology	Z,ZK	5			
Metrology, intergration ir	to quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and s	econdary standar	ts. Measurement			
in 1, 2, end 3 coordinate	es. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct	ture - roughness,	wawiness.			
Measurement automatisation.						
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 desi	gning machining			
processes with regard t	rocesses 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 technica	I and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to	the type of proce	ess and the type			
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:

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
2332038	Surface Treatment Technology	KZ	4	1P+2C	*	Р
2331505	Welding Technology	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-TVA Name=14 2012 BVES 5.sem zam TVA povinné

<u></u>						
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 ir	troduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution	ution and its speci	ies. 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:

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

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

2331071Automation of Production ProcessesZ,ZK5Automation of basic technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanization and automation in iron and
steel foundries. Automation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. Designing and programming of
robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.Z,ZK5

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:

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	*	Ρ
2321501	Jana Sobotová	Z,ZK	4	3P+1C	*	Р
2321503	Technical testing of materials Elena ižmárová	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

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.			II designations					
2321503	Technical testing of materials	Z,ZK	5					
Tarma and definition of	Form and definition of properties. Verification of properties in a partified quality management system. Apprediated text laboratory and text systems, text standard, Davis machanical							

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	Z	5	0P+6C	*	Р
2341002	Cutting tools	Z,ZK	4	2P+1C	*	Р
2341068	Special machining technology	Z,ZK	5	3P+2C	*	Р

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

2343993	Bachelor thesis	Z	5			
Sources of information	Sources of information in the field. Databases and corporate literature. Normalization. Search activity. News from the field of engineering technology. Principles of research and wor					
in laboratories. The prin	ciples of work safety in technological devices. Work on specialized tasks related to the focus of a thesis.					
2341002	Cutting tools	Z,ZK	4			
Cutting tools characteris	stics. Cutting materials including heat treatment and surface finish, application fields. Cutting tool geometry, determination an	d measurement.	Cutting tools			
elements design. Cuttin	g tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, m	illing tools, etc.).	Special cutting			
tools. Grinding, use and	I maintenance of cutting tools.					
2341068	Special machining technology	Z,ZK	5			
Development of cutting	material, cutting speed development and consequences on the properties of surface finish. Hard and precision machining, ei	ngineering econo	mics and			
ecology.Influence of sur	face layer and selecting methods of machining process parameters. New methods of abrasive machining, grinding of cerami	cs, grinding difficu	ılt-materials.			
Expert, adaptive and intelligent control systems, abrasive processes. Physical methods of machining, manufacturing methods and gear threading, finishing methods. Technology in						
the aerospace industrie	s, 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:

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	Z	5	0P+6C	*	Р
2332056	Preparations and Tools	KZ	3	0P+3C	*	Р
2331065	Design Consideration	Z,ZK	5	3P+1C	*	Р
2331506	Casting and Forming Technology	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
	of the manufacturing method for semi-finished products. Production planning and production					
	al, utilized equipment. Production processes for stampings. Manufacturing of stampings, press		t. Production	n processes	for weldments	s. Operational
	als, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a	i stamping.				
2331065	Design Consideration				Z,ZK	5
	sign, production technique and economic aspects. Design considerations in casting, forming	, welding, machin	ing and asso	embly techr	niques. Basis f	or material
· · ·	logy selection. Component detailing for manufacture. CNC basis and using CNC.					
2331506	Casting and Forming Technology			1	Z,ZK	5
	of the manufacturing method for semi-finished products. Production planning and production planning and production planning of etermings			•	•	•
	al, utilized equipment. Production processes for stampings. Manufacturing of stampings, pre	esses and equipm	ent. Plastic	noulaings.	individual proj	ects for
production of a casting	I, forging or a stamping.					
Code of the g	roup: 12DVP1P-KMEN					
Name of the g	proup: 00 2012 D kmenové 1. semestr VES prezen ní					
Requirement	credits in the group:					
•	courses in the group:					
•						
Credits in the						
Note on the g	roup: 12B**1P-	KMEN #				
	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their	Completion	Credite	Scone	Semester	Role
ooue	members)	Completion	oreans	ocope	Gemester	INDIE
	Tutors, authors and guarantors (gar.)					
2122010	Chemistry	кz	2	2P+1C	4	
2182019	Radek Šulc, Martin Dostál, Vojt ch B lohlav, Stanislav Solna , Jan Sko ilas Radek Šulc Radek Šulc (Gar.)	r r z	3	2P+10	1	Р
	Constructive Geometry				*	
2011021	Ivana Linkeová	Z,ZK	6	3P+2C	*	P
	Mathematics I					
2011056	Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková,	Z,ZK	8	4P+4C	*	Р
	Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka	_,				
0070044	Keslerová Gejza Dohnal (Gar.)	1/7	3	40.40	*	
2372041	Computer Support for Study	KZ	3	1P+1C		Р
Characteristics a	f the seurose of this group of Study Dien, Code-12DV/D1D KMEN N		Dkmana			
	f the courses of this group of Study Plan: Code=12DVP1P-KMEN Na	ame=00 2012	D kmenc	ove 1. sei		-
2182019	Chemistry	the equire (etrivet	ure and prov	 	KZ	3
	n the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of mical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (h					
	erial properties measurement.	yulucalbolis, poly	mers) and b	lochennistry	. Laboratory p	
2011021	Constructive Geometry				Z,ZK	6
	on geometric objects in the space - curves, surfaces and solids and their properties and mi	utual relations		2	-,41	0
2011056	Mathematics I				Z,ZK	8
	emphasis is placed on the theoretical basis of the concepts discussed and on the derivation	of basic relations	hips and co			-
	procedures for solving problems with parametric input. In addition, students will gain extended		•			
-	nomial, integral as a limit function, integration of some special functions.				2	32

2372041 Computer Support for Study

ΚZ 3 The course introduces students into creating technical and professional documents on computers or Web and into realizing technical computations with the use of computers. Students gain practical skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating technical-based WWW page.

Code of the group: 12DVP2P-KMEN

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

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

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

Credits in the group: 25

Note on the group:

12B**2P-KMEN

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, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková Jana Sobotová Jana Sobotová (Gar.)		3	2P+1L	2	Р
2012037	Computer Graphics Marta Hlavová, Ji í Holman, Nikola Pajerová, Martin Hanek, Jan Karel, Ivana Linkeová, Jaroslav Cibulka Ivana Linkeová Ivana Linkeová (Gar.)	KZ	3	1P+1C	*	Р

2333017	Surface Treatment	Z	3	1P+1C	*	Р
2131002	Engineering Design II Eliška Cézová, Jan Flek, Jan Kanaval, Karel Petr, Martin Dub, Martin Havlí ek, Jan Hoidekr Karel Petr Karel Petr (Gar.)	Z,ZK	4	2P+3C	2	Р
2333038	Fundamentals of Technology I.	Z	3	1P+1C	*	Р
	e courses of this group of Study Plan: Code=12DVP2P-KMEN Na	me=00 2012	D kmen			prezen n
	nysics I.			1	,ZK	7
-	f a particle motion. Principle of conservation of energy. System of particles, centre of max					
	mperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, cu					
•	lagnetic materials. Laboratories - accuracy of measurements, systematic and random er	rrors, uncertainty	of direct a	na indirect m	easurements	regression,
	is experiments related to the lectures.					
	atematika II.			1	"ZK	. 8
	dary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient			•		e ,
	given implicitly. Local and global (= absolute) extremes of a function of more variables. Dou	•	· · /			
	ical and spherical coordinates. A simple smooth curve and line integral of a scalar and v					
	e integral on the path. Simple smooth surface and surface integral of a scalar function ar	nd a vector functi	on. Flow of	a vector field	i through a si	irface. The
Gauss-Ostrogradskij theore						
	aterials Science I.			1	KZ	3
	f materials engineering, overview of technical materials, internal structure of metals, cry-					
	ure and properties of materials and their testing, fundamentals of thermodynamics, phase	ses and phase tra	ansformatic	ons, iron-carb	on phase dia	gram.
2012037 C	omputer Graphics				KZ	3
2333017 S	urface Treatment				Z	3
Introduction to the surface	reatments - branch signification and objects. Principles of corrosion, types and corrosion	n distribution. Ant	ticorrosive p	prevention in	manufacturin	g, method
anticorrosive prevention. Co	prrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings,	, electroplating, h	ot-dip galva	anizing. Orga	nic coatings.	Ecological
aspects of surface treatment	nts.					
2131002 E	ngineering Design II			Z	,ZK	4
	ometrical Products Specification). Students will get critical knowledge about ISO system of	of limits and fits,	tolerancing	, surface text	ure, geometri	cal tolerance,
	ing of angles and cones, tolerancing of threads. Integral part of course is a project wher					
2333038 Fi	undamentals of Technology I.				Z	3
	gineering production. Technology of engineering production. Materials in engineering. C	oncepts of steel	and cast irc	on, technical	netals. Produ	-
	deling devices, molding materials, molding and castings. Foundry alloys. Overview of bas					
•	ng. Production of pipes. Bulk and sheet metal forming. Welding technology. The characte	•	0,	•		
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

Note on the group						
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2021025	Physics II.	Z,ZK	4	1P+2L	3	Р
2011009	Mathematics III Radka Keslerová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Jan Valášek, Lud k Beneš, Tomáš Bodnár, Tomáš Neustupa, Stanislav Kra mar Stanislav Kra mar (Gar.)	Z,ZK	5	2P+2C	*	Р
2321039	Materials Science II. Jana Sobotová, Eliška Gal íková, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Lucie Pilsová, Ta ana Vacková, Jan Walter, Jana Sobotová Jana Sobotová (Gar.)	Z,ZK	4	2P+2L	*	Ρ
2331068	Technology I.	Z,ZK	5	2P+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 electromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum properties of electromagnetic waves. Interaction								
of radiation with matter	Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom a	nd periodic syster	m of elements.					
Spectra, x-rays, ;laser.	Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 e	xperiments relate	d to the lectures.					
2011009	Mathematics III	Z,ZK	5					
An introductory course	in ordinary differential equation and infinite series.							
2321039	Materials Science II.	Z,ZK	4					
Fundamentals of metal	ugy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal ar	nd thermo-mechai	nical processing,					
technical iron-carbon a	loys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials.							
2331068	Technology I.	Z,ZK	5					
Foundry properties of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of forming processes. Semi-products,								
heating-up. Cutting. Co	d and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatments.							

Code of the group: 12BV*4Q-BZJ VES Name of the group: 11 2012 bakalá ské zkoušky z jazyk pro VES Requirement credits in the group: In this group you have to gain at least 2 credits (at most 10) Requirement courses in the group: In this group you have to complete at least 1 course (at most 5) Credits in the group: 2

Note on the group:

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

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

VL0			
2041061	English-Bachelor Exam	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041063	French - Bachelor Exam /FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041062	German - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041065	Russian - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		
2041064	Spanish - Bachelor Exam / FME	Z,ZK	2
Mapped to the Com	non European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diff	iculties, to take pa	rt in discussions,
to write a summary,	a report and an essay, to read technical texts, to master grammar at advanced level.		

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

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

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

Note on the group:

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

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

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

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

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

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

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2322091	Project Jana Sobotová, Ji í Cejp, Pavlína Hájková, Jan Kr il, Vladimír Mára, Ta ana Vacková, Jakub Horník, Ladislav Cvr ek, Elena ižmárová, Jana Sobotová Jana Sobotová (Gar.)	ΚZ	2	0P+2C	*	PV
2332091	Project	KZ	2	0P+2C	*	PV
2342091	Project	KZ	2	0P+2C	*	PV

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

2322091		NZ				
On the basis of the pre	On the basis of the preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and evaluating the studied literature					
with particular emphas	with particular emphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment or evaluate hitherto obtained					
knowledge or results.						
2332091	Project	KZ	2			
2342091	Project	KZ	2			
Work on specialized ta	Work on specialized tasks.					

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

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

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 voliteIné pro VES

202A041	Physics I.	ZK	3				
Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations,							
waves. Fluid mechanics	waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors,						
insulators. Magnetic fiel	d. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and inc	lirect measureme	nts, regression,				
measurements of 11 va	rious experiments related to the lectures.						
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 ale	gebra, analytic geometry of straight lines and planes in E3, calculus of functions of one variable						
201A062	Mathematics II.A	ZK	4				
Open and closed set, b	oundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Differe	ntial operators div	v (divergence)				
and curl (rotation). Func	tion given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integ	ral, Fubini theorem	n. Transformation				
of integrals to polar, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Green's theorem. A potential vector							
field, independence of a	a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vec	ctor field through a	a surface. The				
Gauss-Ostrogradskii the	aorem						

Code of the group: 12B**1V-DOP SEMI Name of the group: 05 2012 doporu ené seminá e

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

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

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

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

Code of the group: 12B**1V-DOP ZJK Name of the group: 06 2012 doporu ené základní jazykové kurzy a prezentace Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2046155	English Conversation Ilona Šimice, Michele Le Blanc Ilona Šimice Michele Le Blanc (Gar.)	Z	2	0P+2C	*	V
2046156	English Conversation Ilona Šimice, Michele Le Blanc	Z	2	0P+2C	L	V
2046071	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová	Z	2	0P+2C	L	V
2046070	English - Lower Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	z	2	0P+2C	z	V
2046074	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	z	V
2046075	English - Advanced Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová, Michele Le Blanc Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046072	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046073	English - Upper Intermediate Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice Ilona Šimice (Gar.)	Z	2	0P+2C	L	V
2046068	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Michaela Schusová Ilona Šimice (Gar.)	Z	2	0P+2C	Z	V
2046069	English - Beginners Ilona Šimice, Michaela Schusová, Hana Volejníková, Veronika Kratochvílová Ilona Šimice	Z	2	0P+2C	L	v
2046126	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	L	V
2046125	Czech Lower Intermediate Jaroslava Kommová	Z	2	0P+2C	Z	V
2046118	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	L	V
2046117	Czech -Advanced Jaroslava Kommová	Z	2	0P+2C	Z	V
2046127	Czech - Upper Intermediate 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	Schusova (Gar.) French - Lower Intermediate Course Michaela Schusová, Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046091	(Gur.) French - Advanced Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046090	French - Advanced Michaela Schusová, Dušana Jirovská, Eliška Vítková Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	z	v
2046089	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Dušana Jirovská Dušana Jirovská (Gar.)	Z	2	0P+2C	L	V
2046088	French - Upper Intermediate Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	v
2046084	French - Beginners Michaela Schusová, Dušana Jirovská Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	v
2046085	French - Beginners' Course Michaela Schusová, Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	L	v
2146060	Indonesian Language Course for Exchange	Z	2	0P+2C	*	V
2146061	Technical Indonesian - Course I.	Z	2	0P+2C	Z	v
2144062	Technical Indonesian - Course II.	Z,ZK	3	1P+2C	L	v
2046078	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046079	German - Lower Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046083	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046082	German - Advanced Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	z	v
2046081	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	v
2046080	German - Upper Intermediate Course Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046076	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Michaela Schusová Petr Laurich (Gar.)	Z	2	0P+2C	Z	V
2046077	German - Beginners Michaela Schusová, Jaroslava Kommová, Eliška Vítková, Petr Laurich Eliška Vítková Jaroslava Kommová (Gar.)	Z	2	0P+2C	L	V
2046161	Presentations in English	Z	2	0P+2C	*	v
2046166	Michaela Schusová Presentations in Czech	Z	2	0P+2C	*	v
2046162	Jaroslava Kommová Presentations in German Jaroslava Kommová, Eliška Vítková, Petr Laurich Jaroslava Kommová	Z	2	0P+2C	*	v
2046164	Jaroslava Kommová (Gar.) Presentations in Russian	Z	2	0P+2C	*	V
2046163	Dušana Jirovská Presentations in French language	Z	2	0P+2C	*	v
	Dušana Jirovská Dušana Jirovská Presentations in Spanish				*	
2046165	Eliška Vítková	Z	2	0P+2C		V
2046137	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	v
2046138	Russian - Lower Intermediate Course Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	v
2046141	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046142	Russian - Advanced Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	v
	Russian - Upper Intermediate	Z	2	0P+2C	L	v

2046139	Russian - Upper Intermediate Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046136	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská Dušana Jirovská	Z	2	0P+2C	L	V
2046135	Russian - Beginners Michaela Schusová, Hana Volejníková, Dušana Jirovská, Eliška Vítková Michaela Schusová Michaela Schusová (Gar.)	Z	2	0P+2C	Z	V
2046099	Spanish - Lower Intermediate Michaela Schusová, Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V
2046098	Spanish - Lower Intermediate Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046096	Spanish - Beginners Michaela Schusová, Eliška Vítková, Jaime Andrés Villagómez Eliška Vítková Eliška Vítková (Gar.)	Z	2	0P+2C	Z	V
2046097	Spanish - Beginners Michaela Schusová, Jaime Andrés Villagómez Jaime Andrés Villagómez Jaime Andrés Villagómez (Gar.)	Z	2	0P+2C	L	V

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

0040455			<u> </u>
2046155	English Conversation	Z	2
	ve skills in speaking on general topics and general technical topics.	7	0
2046156	English Conversation	Z	2
	ve skills in speaking on general topics and general technical topics.		
2046071	English - Lower Intermediate	Z	2
	n European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which		
	nd speaking about them. Writing in a simple way about familiar topics. reading and comprehension of simple texts. Improvem		
2046070	English - 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	m. writing in a sin	nple way about
	and comprehension of simple texts. Improvement of professional language. A1 - A2.	7	
2046074	English - Advanced	Z	2
	n of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Writt		
	ummary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's fie advanced level. B1 - B2.	id of studies witho	out difficulties.
		7	0
2046075	English - Advanced	Z	2
	n European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in E		
	in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprel s from student's field of studies without difficulties. Grammar structures on advanced level.	iension of popula	r-scientific and
		7	0
2046072	English - Upper Intermediate	Z	2
	guage skills taking into consideration professional English and common professional terminology. Comprehension of standard	English speech a	ind conversation
	y life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.		
2046073	English - Upper Intermediate	Z	2
	n European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and a standard		
3 , 1	nsion of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on interm	iediate ievel. Broa	dening grammar
knowledge.			
2046068	English - Beginners	Z	2
2046068 Aim: Basic vocabulary o	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p	rofessional langua	age). A1
2046068 Aim: Basic vocabulary of 2046069	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners	rofessional langua	age). A1 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand	rofessional langua	age). A1 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan ninology (professional language).	rofessional langua Z ding and use of ba	age). A1 2 asic expressions
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan ninology (professional language). Czech Lower Intermediate	rofessional langua Z ding and use of ba	age). A1 2 asic expressions 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan ninology (professional language). 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	rofessional langua Z ding and use of ba	age). A1 2 asic expressions 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners n European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language.	rofessional langua Z ding and use of ba Z m. Writing in a sin	age). A1 2 asic expressions 2 nple way about
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate	rofessional langua Z ding and use of ba Z m. Writing in a sin Z	age). A1 2 asic expressions 2 nple way about 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the	rofessional langua Z ding and use of ba Z m. Writing in a sin Z	age). A1 2 asic expressions 2 nple way about 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language.	rofessional langua Z ding and use of ba M. Writing in a sin Z m. Writing in a sin	age). A1 2 asic expressions 2 nple way about 2 nple way about
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced	rofessional langua Z ding and use of ba M. Writing in a sin Z m. Writing in a sin Z	age). A1 2 asic expressions 2 nple way about 2 nple way about 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of 0	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C	rofessional langua Z ding and use of ba M. Writing in a sin Z m. Writing in a sin Z zech without grea	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehension	rofessional langua Z ding and use of ba M. Writing in a sin Z m. Writing in a sin Z zech without grea	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners Deuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- s from student's field of studies without difficulties. Grammar structures on advanced level.	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z sion of popular-sc	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners ne uropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z sizech without grea sion of popular-sc	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc Z discussions. Expr	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc Z discussions. Expr ticles.	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions.
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners neuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand inology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Upper Intermediate	rofessional langua Z ding and use of ba m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127 Understanding standard	of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehensis s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Upper Intermediate a speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit aspeech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit	rofessional langua Z ding and use of ba m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127 Understanding standard events, briefly explain of	f everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understand ninology (professional language). Czech Lower Intermediate ardy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate ardy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate ardy what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens s from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit ne's opinions and plans. Reading and understanding general and technical texts.	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z ty to describe exp	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2 eriences and
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127 Understanding standard events, briefly explain of 2046128	If everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech - Adver Intermediate and comprehension of simple texts. Improvement of professional language. Czech - Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehen- sif form student's field of studies without difficulties. Grammar structures on advanced level. Czech - Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit ne's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate	rofessional langua Z ding and use of ba Z m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z ty to describe exp Z	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2 eriences and 2
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127 Understanding standard events, briefly explain of 2046128 Mapped to the Common	If everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). 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 and comprehension of simple texts. Improvement of professional language. 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 and comprehension of simple texts. Improvement of professional language. Czech -Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens from student's field of studies without difficulties. Grammar structures on advanced level. Czech -Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Upper Intermediate d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili ne's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate h European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional neuropean Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional	rofessional langua Z ding and use of ba m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z ty to describe exp Z Czech and comr	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2 eriences and 2 non professional
2046068 Aim: Basic vocabulary of 2046069 Mapped to the Common of general scientific terr 2046126 Aim: Understanding cle familiar topics. Reading 2046125 Aim: Understanding cle familiar topics. Reading 2046118 Mapped to the level of of active participation in a scientific articles or text 2046117 Comprehension of spok Written skills. Ability to 2046127 Understanding standard events, briefly explain of 2046128 Mapped to the Common	If everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (p English - Beginners Deuropean Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan- ninology (professional language). Czech Lower Intermediate and comprehension of simple texts. Improvement of professional language. Czech Lower Intermediate and comprehension of simple texts. Improvement of professional language. Czech Advanced Czech Advanced Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in C discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens s from student's field of studies without difficulties. Grammar structures on advanced level. Czech - Advanced en language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and technical ar Czech - Jupper Intermediate d speech about familiars that a student meets at work, at school, during free time, and talking about these topics. Abilit ne 's opinions and plans. Reading and understanding general and technical texts. Czech - Upper Intermediate ne Supper Intermediate ne Supper Intermediate ne supper Intermediate ne 's opinions and plans. Reading and understanding general and technical texts.	rofessional langua Z ding and use of ba m. Writing in a sin Z m. Writing in a sin Z czech without grea sion of popular-sc discussions. Expr ticles. Z ty to describe exp Z Czech and comr	age). A1 2 asic expressions 2 nple way about 2 nple way about 2 at difficulties and ientific and 2 essing opinions. 2 eriences and 2 non professional

2046119 Basic vocabulary of ev		n	
	Czech Language for Beginners I. eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profes	Z Sional language)	2
2046120	Czech Language for Beginners II.	Z	2
	in European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understan	nding and use of ba	asic expressions
-	minology (professional language).	7	2
2046086	French - Lower Intermediate Course what is spoken as the student meets at school or in his/her free time and speaking about them. Wr	iting in a simple w	2 av about familia
	mprehension of simple texts. Improvement of professional language.		ay about familia
2046087	French - Lower Intermediate Course	Z	2
	Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which		
	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 to ative speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading an		
	ular scientific and technical articles.	na understanding i	
2046090	French - Advanced	Z	2
Comprehension of spo	ken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participatio	on in discussions.	Expressing
	Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	1 1	
2046089	French - Upper Intermediate	Z	2
	Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understa		
2046088	French - Upper Intermediate		2
	rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili	1 – 1	
•	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. Wr	riting in a simple w	ay about familia
	mprehension of simple texts. Improvement of professional language.		
2046085	French - Beginners' Course	Z	2
	Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which peaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2146060	Indonesian Language Course for Exchange	Z	2
	Inguage for Student Exchange Program to Indonesia		2
2146061	Technical Indonesian - Course I.	Z	2
Second part of Indone	sian Language for Student Exchange Program to Indonesia	1 1	
2144062	Technical Indonesian - Course II.	Z,ZK	3
	inguage for Student Exchange Program to Indonesia	,	
2046078	German - Lower Intermediate Course	Z	2
-	early what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the g and comprehension of simple texts. Improvement of professional language.	em. writing in a sin	npie way about
2046079	German - Lower Intermediate Course		
	Derman - Lower Intermediate Oodise	7	2
	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic	Ch a student meets	2 either at schoo
or in his/her free time a	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme	ch a student meets	either at schoo
or in his/her free time a 2046083		ch a student meets	either at schoo
2046083 Mapped to the level of	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given ir	ch a student meets ent of professional Z n German without	either at schoo language. 2 great difficulties
2046083 Mapped to the level of and active participation	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in n in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre-	ch a student meets ent of professional Z n German without	either at schoo language. 2 great difficulties
2046083 Mapped to the level of and active participation scientific articles or tex	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level.	h a student meets ant of professional Z n German without ehension of popula	either at schoo language. 2 great difficulties ar-scientific and
2046083 Mapped to the level of and active participation scientific articles or tex 2046082	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given ir in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course	h a student meets ent of professional Z n German without ehension of popula	e either at schoo language. 2 great difficulties ar-scientific and 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level.	h a student meets ent of professional Z n German without ehension of popula Z ion in discussions.	e either at schoo language. 2 great difficulties ar-scientific and 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te	h a student meets ent of professional Z n German without ehension of popula Z ion in discussions.	e either at schoo language. 2 great difficulties ar-scientific and 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participation	ch a student meets ent of professional Z n German without ehension of popula Z ion in discussions. echnical articles. Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 prk, at school,
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand German - Upper Intermediate Course	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understand German - Upper Intermediate Course rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and t 2046080 Understanding standa events, briefly explain	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one 's opinions and plans. Reading and understanding despeech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one 's opinions and plans. Reading and understanding general and technical texts.	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z z ty to describe exp	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and t 2046080 Understanding standa events, briefly explain 2046076	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one 's opinions and plans. Reading and understanding descread a speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, 4 technical texts 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and t 2046080 Understanding standa events, briefly explain 2046076	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding dependent of speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profester) about the spoken and written form. Understanding and use of basic expressions of general scientific terminology (profester) about the spoken and written form. Understanding and use of basic expressions of general scientific terminology (profester) about the spoken and written form. Understanding and use of basic expressions of general scientific terminology (profester) about the spoken and written form. Understanding and use of basic expressions of general scientific terminology (profester) about the spoken and written form.	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one 's opinions and plans. Reading and understanding descread a speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abili one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Sional language) Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding descrease about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Sional language) Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 2 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding descrease about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners eryday life in a spoken form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners eryday life in a spoken form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners) eryday life in a spoken form. Understanding and use of basic expressions of general scientific terminology (profest German - Beginners)	h a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Sional language) Z	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 2 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level of general scientific term 2046161 Preparing students to	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participate Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess ommon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language).	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Sional language) Z and use of basic of Z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, 4 technical texts 2 eriences and 2 2 expressions of 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level of general scientific term 2046161 Preparing students to 2046166	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course d speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language). Presentations in English presentations in English present in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Z ssional language) Z and use of basic of	e either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 2 expressions of
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level of general scientific term 2046161 Preparing students to 2046166 Preparing students to	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participat Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Abilit one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language). Presentations in English one compean Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language). Presentations in English oresent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech give presentations in English on technical topics, with a possible co-operation with specialized departments.	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Z and use of basic e Z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, 4 technical texts 2 eriences and 2 expressions of 2 2 2
2046083 Mapped to the level of and active participation scientific articles or tex 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co general scientific term 2046161 Preparing students to 2046166 Preparing students to 2046162	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participat Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language). Presentations in English onegen, Presentations in English present in English on technical topics, with a possible co-operation with specialized departments. Presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in English on technical topics, with a possible co-operation with specialized departments.	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Sional language) Z and use of basic of Z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, 4 technical texts 2 eriences and 2 expressions of 2
2046083 Mapped to the level of and active participation scientific articles or tev 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co general scientific term 2046161 Preparing students to 2046162 Preparation for presen	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one 's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course of speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess German - Beginners monon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language). Presentations in English presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ting technical topics in German, possibly in cooperation with specialized departments.	ch a student meets ant of professional Z in German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Z ssional language) Z and use of basic of Z Z z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 expressions of 2 2 2 2 2
2046083 Mapped to the level of and active participation scientific articles or ter 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co general scientific term 2046161 Preparing students to 2046162 Preparation for presen 2046164	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participat Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course rd speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess German - Beginners momon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language). Presentations in English oresent in English on technical topics, with a possible co-operation with specialized departments. Presentations in Czech give presentations in German ting technical topics in German, possibly in cooperation with specialized departments. Presentations in Russian	ch a student meets ant of professional Z n German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Z and use of basic e Z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, 4 technical texts 2 eriences and 2 expressions of 2 2 2
2046083 Mapped to the level of and active participation scientific articles or tev 2046082 Comprehension of spo opinions. Written skills 2046081 Mapped to the level of during free time, and to 2046080 Understanding standa events, briefly explain 2046076 Basic vocabulary of ev 2046077 Mapped to the level Co general scientific term 2046161 Preparing students to 2046162 Preparation for presen 2046164	and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme German - Advanced Course Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German 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 compre- ts from student's field of studies without difficulties. Grammar structures on advanced level. German - Advanced Course ken language as well as lectures in German on topics familiar to the student. Communication with native speakers, participati Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and te German - Upper Intermediate Course Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students c alking about these topics. Ability to describe experiences and events, explain one 's opinions and plans. Reading and understanding general and technical texts. German - Upper Intermediate Course of speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability one 's opinions and plans. Reading and understanding general and technical texts. German - Beginners eryday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess German - Beginners monon European Framework of Reference A1 Basic vocabulary of everyday life in a written and spoken form. Understanding nology (professional language). Presentations in English presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in English on technical topics, with a possible co-operation with specialized departments. Presentations in German ting technical topics in German, possibly in cooperation with specialized departments.	ch a student meets ant of professional Z in German without ehension of popula ion in discussions. echnical articles. Z comes across at we anding general and Z ity to describe exp Z ssional language) Z and use of basic of Z Z z	either at school language. 2 great difficulties ar-scientific and 2 Expressing 2 ork, at school, d technical texts 2 eriences and 2 expressions of 2 2 2 2 2

2046165 Presentations in Spanish	7	2		
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.	2	2		
2046137 Russian - Lower Intermediate Course	7	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. Writ	ing in a simple w	-		
topics. Reading and comprehension of simple texts. Improvement of professional language.	3	.,		
2046138 Russian - Lower Intermediate Course	Z	2		
Mapped to the level of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a study	lent meets at scl	hool or in his/her		
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profess	sional language.			
2046141 Russian - Advanced	Z	2		
Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participatio	n in discussions	Expressing		
opinions. Written skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and tec	hnical articles.			
2046142 Russian - Advanced	Z	2		
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on to	pics familiar to th	ne student.		
Communication with native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and	d understanding	texts concerning		
currant issues and popular scientific and technical articles.				
2046140 Russian - Upper Intermediate	Z	2		
Mapped to the level of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar matters that a student me	eets at work, at s	school, during		
free time, and talking about these topics. Ability to describe experiences and events, briefly explain one's opinions and plans. Reading and understand	ding general and	d technical texts.		
2046139 Russian - Upper Intermediate	Z	2		
Understanding standard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability to describe experiences and				
events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.				
2046136 Russian - Beginners	Z	2		
Mapped to the level of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understandin	g and use of bas	sic expressions		
of general scientific terminology (professional language)				
2046135 Russian - Beginners	Z	2		
Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (profess	ional language)			
2046099 Spanish - Lower Intermediate	Z	2		
Mapped to the level of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a stud	ent meets at sch	nool or in his/her		
free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of profess	sional language.			
2046098 Spanish - Lower Intermediate	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. Write	ing in a simple w	ay about familiar		
topics. Reading and comprehension of simple texts. Improvement of professional language.				
2046096 Spanish - Beginners	Z	2		
Aim:Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them	. Writing in a sim	nple way about		
familiar topics. Reading and comprehension of simple texts. Improvement of professional language.				
2046097 Spanish - Beginners	Z	2		
Mapped to the Common European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s				
his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	professional lar	nguage.		

List of courses of this pass:

Code	Name of the course	Completion	Credits
2011009	Mathematics III	Z,ZK	5
I	An introductory course in ordinary differential equation and infinite series.		1
2011021	Constructive Geometry	Z,ZK	6
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	
2011056	Mathematics I	Z,ZK	8
In the course, greate	er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	ns between concep	ts. Students
will also get to know	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: (eigennumbers and e	eigenvectors
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2011062	Matematika II.	Z,ZK	8
Open and closed s	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different	tial operators div (d	livergence)
and curl (rotation). For	unction given implicitly. Local and global (= absolute) extremes of a function of more variables. Double integral, volume (=triple) integral,	Fubini theorem. Tra	Insformation
a 1	, cylindrical and spherical coordinates. A simple smooth curve and line integral of a scalar and vector function. Circulation and Gree		
field, independence	e of a line integral on the path. Simple smooth surface and surface integral of a scalar function and a vector function. Flow of a vector	or field through a s	urface. The
	Gauss-Ostrogradskij theorem.		
2012037	Computer Graphics	KZ	3
2016007	Mathematics I Seminar	Z	2
201A021	Constructive Geometry A	ZK	3
	The subject is focused on geometric objects in the space - curves, surfaces and solids and their properties and mutual relation	ons.	I
201A056	Mathematics I.A	ZK	4
1	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
Open and closed s	et, boundary in E^k. Real function of k-variables. Partial derivatives and differentiability. Gradient and directional derivative. Different	tial operators div (d	liveraence)

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

2021025 Physics II. Z,ZK 4 Faradys law of lectromagnetic induction. Maxwell's equations, electromagnetic waves. Light, wave optics, geometrical optics. Quantum roperaties of moin. Hydrogen atom and periodic system of elements. Spectra, x-rays, iasz-Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures. 2,ZK 7 Rinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Socillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semicorductors, semicorduc
of radiation with matter, Photoelectric effect. Wave-particle mature of matter. Quantum-mechanical description of particle's motion. Hydrogen atom and periodic system of elements. Spectra, x-rays, ilaser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures. 2021041 Physics I. Z,ZK 7 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2026016 Physics - Seminar Z 2 2 The subject is mainly meant for high-school students for repetition of high-school physics. 202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam / FME Z,ZK 2 Magnet to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, t
Spectra, x-rays, ilaser. Band theory of solids, semiconductors. Nucleus, radioactivity, sources of nuclear energy. Laboratories - measurements of 6 experiments related to the lectures. 2,ZK 7 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, mawes. 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, systemmatic and random errors, uncertainty of direct and indirect measurements, regression, measurements of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, measurements 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, systemmatic and random errors, uncertainty of direct and indirect measurements, regression, measurements. Interview.
2021041 Physics I. Z,ZK 7 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic 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. 2026016 Physics I. Z02A041 Physics I. Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041062 German - Bac
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. 2026016 Physics - Seminar Z 2 Colonations. 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. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is
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. 2026016 Physics - Seminar Z 2 202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lec
measurements of 11 various experiments related to the lectures. 2026016 Physics - Seminar The subject is mainly meant for high-school students for repetition of high-school physics. Z 2 202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2,2K 2 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
2026016 Physics - Seminar Z 2 The subject is mainly meant for high-school students for repetition of high-school physics. ZK 3 202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. Z,ZK 2 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK <td< td=""></td<>
The subject is mainly meant for high-school students for repetition of high-school physics. 202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understan
202A041 Physics I. ZK 3 Kinematics and dynamics of a particle motion. Principle of conservation of energy. System of particles, centre of mass. Rigid body. Continuum, elastic properties of bodies. Oscillations, waves. Fluid mechanics. Temperature and heat transfer. Kinetic theory of gases. Thermodynamics. Electric field, current, conductivity, resistance. Conductors, semiconductors, insulators. Magnetic field. Magnetic materials. Laboratories - accuracy of measurements, systematic and random errors, uncertainty of direct and indirect measurements, regression, measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write
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. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
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. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
measurements of 11 various experiments related to the lectures. 2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2,ZK 2 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2,ZK 2 <
2041061 English-Bachelor Exam Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater diffi
2041062 German - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041063 French - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2
2041063 French - Bachelor Exam /FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. 2041064 Spanish - Bachelor Exam / FME Z,ZK 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level. Z,ZK 2
Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions, to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
2041065 Russian - Bachelor Exam / FME Z,ZK 2
2041000 CLAIT / FIVE 2,2K 2 Mapped to the Common European Framework Level B2. The aim is to understand spoken language and lectures on technical topics without greater difficulties, to take part in discussions,
to write a summary, a report and an essay, to read technical texts, to master grammar at advanced level.
2046068 English - Beginners Z 2
Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language). A1
2046069 English - Beginners Z 2
Mapped to the Common European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding and use of basic expressions of general scientific terminology (professional language).
2046070 English - Lower Intermediate Z 2
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about
familiar topics. Reading and comprehension of simple texts. Improvement of professional language. A1 - A2.
2046071 English - Lower Intermediate Z 2
Mapped to the Common European Framework of Reference Level A2 Aim: Understanding clearly spoken language about everyday situations which a 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. Improvement of professional language.
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 English speech and conversation
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional Z 2
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. Z 2 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced Z 2
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific ant scientific articles or texts from student's field of studies without difficulties.
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2.
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific ant scientific articles or texts from student's field of studies without difficulties.
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. Z 2 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. Z 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. Z 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of spoken English as well as lectures given in English without great difficulties and activ
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies w
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanc
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific anticles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of spoken English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific articles or
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanc
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 Pare aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Rammar structures on advanced level. B1 - B2. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Ramped to the Common European Framework of Reference Level B1 - B2. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Ramped to the Common European Framework of Reference Level B1 - B2. 2 2 Mapped to the Common European Framework of Reference Level B1 - B2. Z 2 2 Mapped to
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1.2046073English - Upper IntermediateZ2Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge.Z22046074English - AdvancedZ2The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2.Z2046075English - AdvancedZ2Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties. art active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific articles.Z22046076CC22Basic vocabulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (professional language).Z22046077German - BeginnersZ22046077German - Beginne
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. 2 2 2046076 German - Beginners Z 2 2046076 German - Beginners Z 2 2046077 German - Beginners Z 2 2046077 German - Beginners Z 2 2046076 German - Beginners Z
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2 2046073 English - Upper Intermediate Knowledge. Z 2 2046074 English - Advanced English - Advanced Z 2 2046074 English - Advanced Z 2 2046074 English - Advanced Z 2 2046074 English - Advanced Z 2 1re aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific articles or texts from student's field of studies without great difficulties and active participation in a discussion. Written and oral skills on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. The aim: comprehension of spoken English as well as lectures given in English without great difficulties. Grammar structures on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. Z 2 2046076 German - Beginners Z 2 2046077 Germa
about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. A2 - B1. 2046073 English - Upper Intermediate Z 2 Mapped to the Common European Framework of Reference Level B1. The aim is to extend language skills taking into consideration professional English and common professional terminology. Comprehension of standard English speech and conversation about topics of everyday life - at school, at work, during free time, on intermediate level. Broadening grammar knowledge. 2046074 English - Advanced Z 2 The aim: comprehension of spoken English as well as lectures given in English without great difficulties and active participation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. reading and comprehension of popular-scientific and scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. B1 - B2. 2 2046075 English - Advanced Z 2 Mapped to the Common European Framework of Reference Level B1 - B2. 2 2 2046076 German - Beginners Z 2 2046076 German - Beginners Z 2 2046077 German - Beginners Z 2 2046077 German - Beginners Z 2 2046076 German - Beginners Z

2046080	German - Upper Intermediate Course	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.	to describe experie	ences and
2046081	German - Upper Intermediate Course	Z	2
	el of Common European Framework of Reference:A2 - B1 Understanding standard speech about familiar topics, that a students com In talking about these topics. Ability to describe experiences and events, explain one s opinions and plans. Reading and understandir		
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	n in discussions. E	
opinions. \	Nritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a	nd technical article	es.
2046083	German - Advanced Course	Z	2
	el of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken German as well as lectures given in Ge	•	
and active participa	ation in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehe	ision of popular-sc	ientific and
2046084	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level. 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		_
	topics. Reading and comprehension of simple texts. Improvement of professional language.	in a onlipio naj az	ournandi
2046085	French - Beginners' Course	Z	2
Mapped to the lev	el of Common European Framework of Reference: A1 Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool or in
	ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046086	French - Lower Intermediate Course	Z	2
Understanding clea	arly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	in a simple way ab	out familiar
2046097	topics. Reading and comprehension of simple texts. Improvement of professional language.	7	2
2046087 Mapped to the lev	French - Lower Intermediate Course el of Common European Framework of Reference: A2 Aim: Understanding clearly what is spoken about everyday situations which a	∠ student meets at s	
	te and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046088	French - Upper Intermediate	Z	2
	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		
2046089	French - Upper Intermediate	Z	2
	el of Common European Framework of Reference: A2 - B1 Understanding standard speech about familiar topics, that a students com		
-	nd talking about these topics. Ability to describe experiences and events, explain one's opinions and plans. Reading and understandin	ig general and tecl	
2046090	French - Advanced	Z	2
	of spoken language as well as lectures in French on topics familiar to the student. Communication with native speakers, participation Nritten skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific a		
2046091	French - Advanced		2
	evel of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in French on to	∠ → bics familiar to the	
	h native speakers, participation in discussions. Expressing opinions. Written skills. Ability to write an essay or a report. Reading and u		
	currant issues and popular scientific and technical articles.		
2046096	Spanish - Beginners	Z	2
Aim:Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Nriting in a simple	way about
0040007	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046097	Spanish - Beginners ommon European Framework of Reference Level A1. Aim: Understanding clearly what is spoken about everyday situations which a s	Z tudant monte at se	2 bool or in
	the and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement		
2046098	Spanish - Lower Intermediate	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	in a simple way at	
-	topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046099	Spanish - Lower Intermediate	Z	2
	of Common European Framework of Reference A2 Understanding clearly what is spoken about everyday situations which a studen		
	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of p	-	-
2046117	Czech -Advanced		2
	spoken language as well as lectures in Czech on topics familiar to the student. Communication with native speakers, participation in disc en skills. Ability to write an essay or a report. Reading and understanding texts concerning currant issues and popular scientific and to		ng opinions.
2046118	Czech -Advanced	Z	2
	I of Common European Framework of Reference: B1- B2 The aim: comprehension of spoken Czech as well as lectures given in Czec		
	on in a discussion. Written and oral skills on advanced level. Ability to write a summary, a report, an essay. Reading and comprehens	-	
	scientific articles or texts from student's field of studies without difficulties. Grammar structures on advanced level.		
2046119	Czech Language for Beginners I.	Z	2
	abulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	ofessional langua	
2046120	Czech Language for Beginners II.	Z	2
Mapped to the Com	nmon European Framework of Reference Level A1 Aim: Basic vocabulary of everyday life in a written and spoken form. Understanding of general scientific terminology (professional language).	and use of basic e	expressions
2046125	Czech Lower Intermediate	7	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.	- 1	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	5	,
2046126	Czech Lower Intermediate	Z	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2046127	Czech - Upper Intermediate	Z	2
Understanding sta	andard speech about familiar matters that a student meets at work, at school, during free time, and talking about these topics. Ability	to describe experie	ences and
	events, briefly explain one's opinions and plans. Reading and understanding general and technical texts.		

2046138 Creah - Lipper Intermediate 2 2 2046138 Construction of the topons interaction of the topons of the topons interaction of the topons of the topons interaction of the topons of topons of the topons interaction of the topons of topons of the topons interaction of the topons of topons of the topons interaction of the topons of topons of the topons of topons of topons of topons of topons of topons of the topons of topons of the topons of topons of topons of topons of the topons of topons of the topons of the topons of the topons of topons of the topons of topons of the topons of the topons of the topons of topons of the topons of topons of the top				
bitminioogi: Componension of standard Casch speech and conversation about back of averyda, ¹⁶ , a rational, at work, during free time, on intermediate level. Z <td>2046128</td> <td>Czech - Upper Intermediate</td> <td>Z</td> <td>2</td>	2046128	Czech - Upper Intermediate	Z	2
Invokeling isoftwale Image: Imag	Mapped to the Com	mon European Framework of Reference Level A2-B1. The aim is to extend language skills taking into consideration professional Cz	ech and common	professiona
2046136 Russion - Beginners Z <td>terminology. Com</td> <td>prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm</td> <td>nediate level. Broa</td> <td>dening the</td>	terminology. Com	prehension of standard Czech speech and conversation about topics of everyday life - at school, at work, during free time, on interm	nediate level. Broa	dening the
Basic vacabulary of mery laptic in a speken and written from Londerstanding and use of basic expressions of genoma and written form. Understanding and use of basic expressions of genoma and written form. Understanding and use of basic expressions of genoma and written form. Understanding denot use of basic expressions of genoma and written form. Understanding denot written form. Understanding denot written is accione a boot everyday statutes of which a student mote its action in hishoff hore time and speaking about them. Writting it a sample avglobut filter filter denote and the student mote its action in hishoff hore time and speaking about them. Writting its assigne avglobut filter filter denote and the student mote its action in hishoff hore time and speaking about them written of inference A2. Understanding denot these tops. All provement of protessional anguage. Z Z 2 2046138 Russian - Lower Intermediate Course Z 2 2 2 2046139 Russian - Lower Intermediate Course Z 2 2 2 2 2 2 2 2 2 4 2		knowledge technical language.		
2046136 Russian - Beginners Z 2 2 2046137 Russian - Lower Intermediate Survey of encodence and written term. Understanding and use of basic expression of general scientific terminology (ordence and written term. Since the standard is a subten in a studen meets at school or in hohor the time and spacing about term. Writer in a simple wy about femality terminol and tereminol and tereminol and terminol and terminol and terminol and	2046135	Russian - Beginners	Z	2
Mapped to the level of Common European Pramework of Reference. AT Basis' vocabulary of everyday tile is a popen and written form. Understanding and use of basis' expression of uperand scientific treations of impact to the structure intermediate Course Z 2 2046137 Russian - Lower Intermediate Course Z 2 2046138 Russian - Lower Intermediate Course Z 2 2046138 Russian - Lower Intermediate Course Z 2 2046139 Russian - Lower Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046130 Russian - Advanced Z 2 2 2046140 Russian - Advanced Z 2 2 2046141 Russian - Advanced Z 2 2 2046142 Russian - Advanced Z 2 2 2046141 Russian - Advanced Z 2 2 2046165 Interview Advanced Z	Basic vocal	bulary of everyday life in a spoken and written form. Understanding and use of basic expressions of general scientific terminology (p	professional langua	age)
of general contric terminology (motivasional language) Image: Control in the contrecontre in the control in the control in the control in the cont	2046136	Russian - Beginners	Z	2
2046137 Russian - Lower Intermediate Course Z 2 2046138 Russian - Lower Intermediate Course Z 2 2046138 Russian - Lower Intermediate Course Z 2 2046138 Russian - Lower Intermediate Course Z 2 2046139 Russian - Lower Intermediate Course Z 2 2046139 Russian - Lower Intermediate Course Z 2 2046139 Russian - Lower Intermediate Z 2 2046130 Russian - Lower Intermediate Z 2 2046140 Russian - Lower Intermediate Z 2 2046141 Russian - Lower Intermediate Z 2 2046141 Russian - Lower Intermediate Z 2 2046141 Russian - Lower Intermediate Z 2 2046142 Common trave and turker ademing and comparison of the subment common ademing and comparison of the subment comparison of the subment comparison ad possate ademing and comparison of the subment comparison ad possate ademine ad comparison of the subment comparison ad possate addmine ad turkers addmine ad turker addmi	Mapped to the leve	l of Common European Framework of Reference: A1 Basic vocabulary of everyday life in a spoken and written form. Understanding	and use of basic	expressions
Understanding skening what is spoken about everyday statutions which a student meets at echo to in hather free time and speaking about them. Writing in a simple way about termite weights and the spoken about everyday statutions which a student meets are comprehension of anyte tests. Improvement of professional anytess. 2046139 Russian - Upper Intermediate Course Writing in a simple way about them initian topics. Reading and comprehension of anytes tests. Improvement of professional language. 2046139 Russian - Upper Intermediate 2046140 Russian - Russian - Advanced 2046140 Russian - Russian		of general scientific terminology (professional language)		
topics Reading and competension of simple tests. Improvement of professional language. Z 2 Veloped to the level of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations at submit meets at school or in higher tests. Improvement of professional language. Z 2 2046133 Russian - Upper Intermediate Z 2 2 2046139 Russian - Upper Intermediate Z 2 2 Wapped to the level of Common European Framework of Reference: A2: B1 Understanding standard speech about familiar matter that at at about meeting and understanding general and schools. Expressing common. Writes also: Abit to be well of Common European Framework of Reference: A2: B1 Understanding level common tabout meetings at a school or million and technical tests. Z 2 2046141 Russian - Lower Andreaction and teststand teststand teststand and teststand teststand teststand tes	2046137	Russian - Lower Intermediate Course	Z	2
2046138 Russian - Lower Intermediate Course Z 2 2046139 Russian - Lower Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046139 Russian - Upper Intermediate Course Z 2 2046130 Russian - Upper Intermediate Course Z 2 2046140 Russian - Upper Intermediate Course Z 2 2 2046140 Russian - Upper Intermediate Course Z 2 2 2046141 Russian - Upper Intermediate Course Z 2 2 2046141 Russian - Advanced Z 2 2 2 2046141 Russian - Advanced Z 2<	Understanding clear	rly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing	g in a simple way a	about familia
Naposet in the level of Common European Framework of Reference X2 Understanding dearly what is socken about over-day situations which a subert meets at socken about the holes for the level of Common European Framework of Paternee X2 I Inderstanding gameral and technical tests. 2046139 Understanding standard speech about 50mit Situation works at the socken about the set lepics. Ability to describe experiments and plans. Reading and understanding gameral and technical tests. 2046140 Results of Common European Framework of Reference X2 II Understanding standard speech about these lepics. Ability to describe experimences and events. 2046141 Results of the level of Common European Framework of Reference X2 II Understanding standard speech about families matter that a student meets at works, at school, during the first, and talking about these types. Ability to describe experimences at works, at school, during the situation of specific about the stude of Common European Framework of references AI - Advanced II Results in - Advanced II Results II - Results II - Advanced II Results II - Results III		topics. Reading and comprehension of simple texts. Improvement of professional language.		
 Mapped to the level of Common European Framework of Reference: A2 Understanding centry what its gooken about everyday situations which a student meets at ochoal or in halfwither the time and peaking about three UNDER and Understanding student of genetic about million about three to the about meets at othoal or in halfwith a student meets at owner, at extend centre halfwith about three topics. Allity to describe experiments and plans. Reading and understanding general and technical texts. 20461 10 Russian - Upper Intermediate Z Z Z Russian - Upper Intermediate Z Z	2046138	Russian - Lower Intermediate Course	Z	2
Term and spexing about them. Writing in a simple way about familiar topics. Heading and comprehension of simple tests. Improvement of professional insurance. Z Z Understanding standard speech about formitiar matters that a student meets at work, at school, during free lines, and taking about these topics. Ability to describe experiences and events, briefly explain on its opinions and plans. Reading and understanding general and technical topics. Z Z 2046140 Russian - Upper Intermediate Z Z Z 2046140 Russian - Upper Intermediate Z Z Z 2046141 Russian - Upper Intermediate Z Z Z Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. Communication with native speakers, participation in discussions. Expressing opinions. Writen shills. Ability to wate an essay or a report. Reading and understanding state concerning current issues and popular userific and exhicits and risks. Z Z 2046155 English Conversation Z Z Z 2046161 Presentations in French language awales and popular userific and exhicit and risks. Z Z Z 2046162 English Conversation Z Z Z Z 2046163 Preparing students to freesent and s		of Common European Framework of Reference: A2 Understanding clearly what is spoken about everyday situations which a stude	nt meets at school	l or in his/he
Understanding standard speech about familiar matters that a student meets at work, at statuot, during free time, and talking about these topics. Ability to describe experiences and evolution and the statudent constrainting ground and technical topics. 2046140 Resistion - Upper Intermed (all describe experiences and evolution) and plans. Reading and understanding ground and technical topics. Z Z 2046141 Russian - Advanced Z Z Z Comprehension of spoken maguage as well as focurse in Russian on topics familiar to the student. Communication with neith spokens, participation in discussions. Expressing opinions. Withen akills. Ability to write an essay or a report. Reading and understanding testes concerning currant issues and popular soentific and technical andres. 2046155 Imported Rading and understanding testes and explans. Texpressing opinions. Within a kills. Ability to write an essay or a report. Reading and understanding testes concerning currant issues and popular soentific and technical andres. 2046156 Importing communicative kills in speaking on general topics and general technical topics. Z Z 2046156 Importing communicative kills in speaking on general topics and general technical topics. Z Z 2046156 Importing communicative kills in the advition in common Z Z 2046156 Importing technical topics, with a possible cooperation with specialized departments. Z Z <td>free time an</td> <td>nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of</td> <td>professional langu</td> <td>age.</td>	free time an	nd speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of	professional langu	age.
Uedestanding standard speech about familiar matters that a student meets at work, at school, during free time, and taking about these topics. Ability to describe experiences and evolution of a sporting and plans. Reading and understanding general and taking about these topics. Ability to describe experiences and evolution and taking about these topics. Ability to describe experiences and evolution and taking about these topics. Ability to describe experiences and evolution and taking about these topics. Ability to describe experiences and evolution and taking about these topics. Ability to describe experiences and evolution and plans. Reading and understanding general and technical topics. 20461141 Russian - Advanced Z 2 Comprehension of spoken linguage as well as inclures in Russian on topics familiar to the student. Communication with near spokens, participation in discussions. Expressing opinions. Withen abilits. Ability to write an essary or a report. Reading and understanding testes concenting currant taxes and popular scientific and technical atrices. 2046142 Inproving communication. Expressing opinions. Withen skills. Ability to write an essary or a report. Reading and understanding testes concenting currant taxes and popular scientific and technical atrices. 2046155 Improving communication English Conversation English Conversation English Conversation English Conversation English Conversation Interving linguage and technical topics. 2 Control testes and proving continuicative abilis in spanking on general topics and general technical topics. 2 Control testes and proving continuicative abilis in the ability to coperation with specialized departments. 2 Control testes and proving continuicative abilis in the ability to coperation with specialized departments. 2 Control testes and proving continuicative abilis in the ability to coperation with specialized departments. 2 Control testes and proving interving technical topics, with a possible cooperation with specialized departments. 2 Control testes and prov	2046139	Russian - Upper Intermediate	Z	2
2046140 Russian - Upper Intermediate Z 2 2 Mapped to the level of Common European Famework of Reference 2.e.B Hubbraisanding standard speech should standing and understanding standard speech should standing and understanding standard speech should standing appearations. Participation in discussions Expressing oppoinses Witten exists. DistRy explain one's oppoins and plans. Reading and understanding standards sometiming currant issues and popular societilia on technical target of the student. Communication with neither speakers, participation in discussions. Expressing oppoinses. Witten exists on the plant standards. 2046141 Russian - Advanced Z 2 2046155 English Conversation Z 2 2046156 Improving communicative skills and polinon. Within exists and popular societilia on technical targets and targets targets on technical topics. Z 2 2046156 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046156 Improving communicative skills in technical topics, with a possible cooperation with specialized departments. Z 2 2046162 Preparation to presenting technical topics, with a possible cooperation with specialized departments. Z 2 2046163 Preparation to presenting technical topics, with a possible cooperation with specialized departments. Z <td< td=""><td>Understanding sta</td><td></td><td>to describe exper</td><td>iences and</td></td<>	Understanding sta		to describe exper	iences and
Mapped to the level of Common European Framework of Reference, 24 – B1 Understanding standard speech about familiar material and understanding general and technical techni	-	events, briefly explain one s opinions and plans. Reading and understanding general and technical texts.		
Mapped to the level of Common European Framework of Reference, 24 – B1 Understanding standard speech about familiar material and understanding general and technical techni	2046140	Russian - Upper Intermediate	7	2
Iner time, and taking about these topics. Ability to describe experimens and events, briefly explain one's opicions and plans. Reading and understanding general and technical topics 2046141 Russian - Advanced Z Z Z Comprehension of spoken lenguage as well as lectures in Russian on topics familiar to the student. Communication with naive speakers, participation in discussions. Expressing opicions. Withen skills. Ability to write an essay or a report. Reading and understanding tests concerning current issues and popular scientific and technical articles. 2046152 Improving communicative skills in speaking on general topics and understanding tests concerning current issues and popular scientific and technical articles. 2046155 Improving communicative skills in speaking on general topics and general technical topics. 2046163 Propring tourism to supplement to the student. 2046163 Preparation Z Z Z 2046163 Preparation Z Z Z 2046163 Preparation in Speaking on general topics and general technical topics. 2046163 Preparation for presentitions in Firench language Preparations in English Conversation Z Z Z 2046163 Preparation for presenting technical topics. 2046163 Preparation for presenting technical topics in Russian on solely in cooperation with specialized departments. 2046164 Preparation for presenting technical topics in Genman 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
2046141				-
Comprehension of spoken language as well as lectures in Russian on topics temilar to the student. Communication with nave speakers, participation in discussions. Expressing optimist within shifts. Ability to write an essay or a report. Reading and understanding tasks concerning currant issues and popular scientific and technical atricles. 2046142 Russian - Advanced Z 2 Mapped to the level of Common European Framework of inference B: II: See Comprehension of apoken language as well as lectures in Russian on topics familiar to the student. Z 2 2046155 English Conversation Z 2 2 2046166 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2 2046166 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2 2046161 Presentations in English Z 2 2 2046162 Preparation for presenting technical topics in German Z 2 2 2046163 Preparation for presenting technical topics in Seman, possibly in cooperation with specialized departments. Z 2 2 2046163 Preparation for presenting technical topics in Seman, possibly in cooperation with specialized departments. Z 2				T
openions. Written skills. Ability to write an essay or a report. Reading and understanding test concerning currant issues and popular scientific and technical articles. Z 2 Append to the level of Common European Framework of reference: B1-B2 Comprehension of spoken language as well as lectures in Russian no topics familiar to the student. Z 2 2046145 English Conversation Z 2 2046156 Improving communicative skills in speaking on general topics and general topics and general topics. Z 2 2046156 Improving communicative skills in speaking on general topics and general topics. Z 2 2046161 Preparing students to presentations in English Conversation Z 2 2 2046162 Preparing students to present topics in German. Z 2 2 2046163 Preparation for presenting technical topics. Z 2 2 2046164 Preparation for presenting technical topics in German. Z 2 2 2046165 Preparation for presenting technical topics in Spanish. Z 2 2 2046164 Preparation for presenting technical topics in Spanish. Z 2 2 2046165 <td>1</td> <td></td> <td></td> <td>1</td>	1			1
2046142 Russian - Advanced Z 2 Mapped to the level of Common European Framework of reference: B1 - 82 Comprehension of spoken language as well as lectures in Russian no topics familiar to the student. Communication with netice speakers, participation in discussions. Expressing opinons. Wither skills. Ability to write an easay or a report. Reading and understanding texts concernin currant issues and popular scientific and technical articles. Z 2 2046155 Improving communication with selectare and technical topics. Z 2 2046166 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046161 Preparation for presenting technical topics. Z 2 2046162 Preparation for presenting technical topics. Z 2 2046163 Preparation for presenting technical topics in German Desibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in Reading and understand topics. Z 2 2046165 Preparation for presenting technical topics in Reading and understand topics. Z 2 2046165 Preparation for presenting technical topics in Reading and understand topics. Z 2 204616	-			
Mapped to the level of Common European Framework of reference: B1 - B2 Comprehension of spoken language as well as lectures in Russian on topics familiar to the student. 2046155 English Conversation Z 2 2046156 Inproving communicative site is nspeaking on general topics and general topics and general topics. Z 2 2046156 Inproving communicative site is nspeaking on general topics and general topics. Z 2 2046156 Inproving communicative site is nspeaking on general topics and general topics. Z 2 2046161 Preparing students to present in English for topics in German. Z 2 2046162 Preparation for presenting technical topics in German. Z 2 2046163 Presentations in Fench. Inaguage Z 2 2046164 Presentations in Second coperation with specialized departments. Z 2 2046165 Presentations in Second coperation with specialized departments. Z 2 2046166 Presentations in Casch Z 2 2 2046166 Presentations in Casch Z 2 2 2046166 Presparation for presenting technical topics in Spanish. </td <td></td> <td></td> <td>1</td> <td>1</td>			1	1
Communication with native speakers, participation in discussions. Expressing opinions. Written stills. Ability to write an essay or a report. Reading and understanding texts concernin currant issues and popular scientific and technical articles. Z 2 2046155 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046166 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046161 Presentations in English Z 2 2046162 Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in German possibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in Spanish possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Spanish possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish pospecialized departments. Z 2 <td></td> <td></td> <td></td> <td></td>				
currant issues and popular scientific and technical articles. Z 2 2046155 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046156 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046161 Preparing students to present in English to technical topics. Z 2 2046162 Preparing students to present in English on technical topics. Z 2 2046163 Preparation for presenting technical topics in German Z 2 2046164 Preparation for presenting technical topics in Ressian Z 2 2046164 Preparation for presenting technical topics in Russian Z 2 2046165 Preparation for presenting technical topics in Russian Z 2 2046166 Preparation for presenting technical topics in Russian Z 2 2046166 Preparation in presenting technical topics in Russian Z 2 2046166 Preparation for presenting technical topics in Russian Z 2 2131002 Preparing students to give presentations in Carech Z <			•	
2046155 English Conversation Z 2 2046156 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046156 English Conversation Z 2 2046161 Presentations in English Z 2 2046162 Preparing students to present in English Z 2 2046163 Preparation for presenting technical topics, with a possible co-operation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in French Ianguage Z 2 2046164 Preparation for presenting technical topics in French Ianguage Z 2 2046165 Preparation for presenting technical topics in Spanish cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics, with a possible in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics, with a possible co-operation with specialized departments. Z 2 2046166 Preparation for presenting technical topics, with a possible co-operation with specialized departments. Z 2			inderotanding toxi	o oonoonnin
Improving communicative skills in speaking on general topics and general technical topics. 2046156 Improving communicative skills in speaking on general topics and general technical topics. 2046151 Preparing students to the instructive skills in speaking on general technical topics. 2046162 Preparing students to netwinical topics. with a possible co-operation with specialized departments. 2046163 Presentations in German possibly in cooperation with specialized departments. 2046164 Presentations in French language Z 2 2046165 Preparation for presenting technical topics in French language Z 2 2046166 Preparation for presenting technical topics in Russian Z 2 2046166 Preparation for presenting technical topics in Spanish. Z 2 2046166 Preparation for presenting technical topics in Spanish. Z 2 2046166 Preparation for presenting technical topics in Spanish. Z 2 2046166 Preparation in Czech Z 2 Preparing students to give presentations. English on technical topics is a project where students apply and practical departments. 2 21410204 Introduction to Electrical knowledg	20/6155		7	2
2046156 English Conversation Z 2 2046161 Improving communicative skills in speaking on general topics and general technical topics. Z 2 2046161 Preparing students to present in English in English Z 2 2046162 Preparing students to present in English on technical topics. With a possible co-operation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in Fernch language Z 2 2046164 Preparation for presenting technical topics in Fernch language Z 2 2046165 Preparation for presenting technical topics in Spanish Z 2 2046166 Preparation for presenting technical topics in Spanish Z 2 2046166 Preparation for presenting technical topics in Spanish Z 2 2046166 Preparation for presenting technical topics in Spanish Z 2 2046166 Preparation for presenting technical topics in Spanish Z 2 2131002 Frequenting students to give presentations in Carech Z 2 214104 Introduction to Electricical Englineering for Technolog	2040133	5		2
Improving communicative skills in speaking on general topics and general technical topics. Improving communicative skills in speaking on general topics and general technical topics. 2046161 Preparing students to present in English on technical topics. With a possible co-operation with specialized departments. Z 2 2046162 Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Z 2 2046163 Presentations in German, possibly in cooperation with specialized departments. Z 2 2046164 Presenting technical topics in French, passibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting topics in French language Z 2 2 2046166 Preparation for presenting topics in Spanish, possibly in cooperation with specialized departments. Z 2 2131002 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z,ZK 4 2141204 Introduction to Electrical topics and part of ourse is a project where students apply and practice therir knowledge from lectrues. Z,ZK	2046156		7	2
2046161 Preparing students to present in English Z 2 2046162 Preparing students to present in English Presentations in German Z 2 2046163 Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2046166 Englineering Design II Z.ZK 4 Preparing students to give presentations will ge critical knowledge about Slo yettern of limits and fits, tolerancing, surface texture, generatical locancing, surface texture, generatical locancing, surface texture, generatical locancing, and procesing Program to for Technology Z.ZK	2040150	•	Z	2
Preparing students to present in English on technical topics, with a possible co-operation with specialized departments. 2046162 Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. 2046163 Preparation for presenting technical topics in Seman, possibly in cooperation with specialized departments. 2046164 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. 2046166 Preparing students to give presentations in Czech Z 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical Ringering for Technology Z,ZK 4 214204 Introduction to Electrical Engineering for Technology Z,ZK 4 2144062 Technical Indonesian Language for Student Exchange Program to Indonesia Z 2 2144062 Technical Indonesian Language for Student Exchang	0040404			
2046162 Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Kussian, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2131002 Freparation for presenting technical topics, with a possible co-operation with specialized departments. Z,ZK 4 2141204 Introduction to Electrical Engineering Design II Z,ZK 4 2141204 Introduction to Electrical Engineering Prover factor. Transformer. Induction machines. Synchronous machines. D/C-machines 2144062 Technical Indonesian - Course II. Z,ZK 3 2144062 Technical Indonesian - Course II. Z </td <td>2046161 </td> <td>•</td> <td> Z</td> <td> 2</td>	2046161	•	Z	2
Preparation for presenting technical topics in German, possibly in cooperation with specialized departments. Z 2 2046163 Preparation for presenting technical topics in French, Dassibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presentiations in Czech Z 2 2 Preparing students to give presentations in English on technical topics, with a possibly cooperation with specialized departments. Z/ZK 4 2131002 Engineering Design II Z/ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional tops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. Z/ZK 4 2141204 Introduction to Electrical Engineering Porgram to				T
2046163 Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z 2 2046166 Presentations in Spanish Z 2 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2131002 Engineering Deesing Deesing II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 <tr< td=""><td>2046162 </td><td></td><td> Z</td><td> 2</td></tr<>	2046162		Z	2
Preparation for presenting technical topics in French, possibly in cooperation with specialized departments. Z 2 2046164 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presentitions in English on technical topics, with a possible co-operation with specialized departments. Z 2 2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits. AC el. curcuits. Electrical power and energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. 2 2 2 2 2 2 2				1
2046164 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z 2 2046165 Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z 2 2046166 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2131002 Englineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a roylect where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits. analysis of electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines DC-machines 2144062 Technical Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Indonesian Language for S	2046163	Presentations in French language	Z	2
Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments. Z Z 2046165 Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Presentations in Spanish, possibly in cooperation with specialized departments. Z 2 2046166 Presentations in Czech Z 2 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z,ZK 4 Principles of ISO GPS (Geometrical Product 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. 2141204 Introduction to Electrical Engineering for Technology Z,ZK X 2144062 Curcuits. Electrical power and energy. Principle and typical parameters diodes, transitors, thyristors, operation amplifiers. 2144062 Technical Indonesian - Course II. Z,ZK 3 2144062 Inchonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Inconesian Language for Student Exchange Program to Ind		Preparation for presenting technical topics in French, possibly in cooperation with specialized departments.		
2046165 Presentations in Spanish Z 2 2046165 Preparation for presenting technical topics in Spanish, possible no coperation with specialized departments. Z 2 2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. EL Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines Z 2 2144062 Technical Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course II. Z 2 2146061 Technical Indonesian L	2046164	Presentations in Russian	Z	2
Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments. Z Z 2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z Z 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Suchronous machines. DC-machines Z 2 2144062 Technical Indonesian - Course II. Z,ZK 3 2146061 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Z 2 2 2146061 Technical anguage for Studen		Preparation for presenting technical topics in Russian, possibly in cooperation with specialized departments.		
2046166 Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. Z 2 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. EI. 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 Z,ZK 3 2144062 Technical Indonesian Language for Student Exchange Program to Indonesia Z 2 2146060 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian Course I. Z 2 2146061 Technical Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian La	2046165	Presentations in Spanish	Z	2
Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departments. 2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerancing dimensional loops, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. Synchronous machines. 2144062 Technical Indonesian - Course II. Z,ZK 3 2146060 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Z 2 2146061 Recond part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK		Preparation for presenting technical topics in Spanish, possibly in cooperation with specialized departments.		
2131002 Engineering Design II Z,ZK 4 Principles of ISO GPS (Geometrical Products Specification). Students will get critical knowledge about ISO system of limits and fits, tolerancing, surface texture, geometrical tolerance dimensional loops, tolerancing of angles and cones, tolerancing of threads. Integral part of course is a project where students apply and practice their knowledge from lectures. 1 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines 2144062 Technical Indonesian Language for Student Exchange Program to Indonesia Z,ZK 3 2146060 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Z 2 Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2148001 Chemistry Chemistry Z 2 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reacti	2046166	Presentations in Czech	Z	2
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. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines 2144062 Technical Indonesian - Course II. 2146060 Indonesian Language for Student Exchange Program to Indonesia 2146060 Indonesian Language for Student Exchange Program to Indonesia 2146061 Technical Indonesian - Course I. 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course, formers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 MaterialS Science II. 2321039 MaterialS Science II. 2321039 MaterialS Science II. 2321067 Technical and process and influence of other elements, phase teransformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys and influence of other elements, phase transformations, thermal, compiler, selection of materials. 2321067 Technical Application of Materials 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 subjece	I	Preparing students to give presentations in English on technical topics, with a possible co-operation with specialized departm	ents.	
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. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. El. Power and Energy. Principle and typical parameters diodes, transistors, thyristors, operation amplifiers. Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines 2144062 Technical Indonesian - Course II. 2146060 Indonesian Language for Student Exchange Program to Indonesia 2146060 Indonesian Language for Student Exchange Program to Indonesia 2146061 Technical Indonesian - Course I. 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course, formers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 MaterialS Science II. 2321039 MaterialS Science II. 2321039 MaterialS Science II. 2321067 Technical and process and influence of other elements, phase teransformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys and influence of other elements, phase transformations, thermal, compiler, selection of materials. 2321067 Technical Application of Materials 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 subjece	2131002	Engineering Design II	Z.ZK	4
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. 2141204 Introduction to Electrical Engineering for Technology Z,ZK 4 Elements of electrical circuits, analysis of electrical circuits as DC and AC. EI. 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 2144062 Technical Indonesian - Course II. Z,ZK 3 Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146060 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Z 2 Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 <t< td=""><td></td><td></td><td></td><td>al tolerance</td></t<>				al tolerance
Elements of electrical circuits, analysis of electrical circuits as DC and AC. EI. 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 2144062 Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and th				
Elements of electrical circuits, analysis of electrical circuits as DC and AC. EI. 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 2144062 Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and th	2141204	Introduction to Electrical Engineering for Technology	7.7K	4
Analogue and digital circuits. AC el. curcuits. Electrical power and energy. Calculation, measurement, power factor. Transformer. Induction machines. Synchronous machines. DC-machines 2144062 Technical Indonesian - Course II. Z,ZK 3 Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146060 Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Z 2 Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 21482019 Technical Indonesian - Course I. Z 2 Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermale processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. 2321067	1		1 '	1
2144062 Technical Indonesian - Course II. Basic of Indonesian Language for Student Exchange Program to Indonesia Z,ZK 3 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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 Z,ZK 5			• •	
Basic of Indonesian Language for Student Exchange Program to Indonesia 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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 mt chto skupin. The subject S	Ū	DC-machines	,	
Basic of Indonesian Language for Student Exchange Program to Indonesia 2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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 mt chto skupin. The subject S	2144062	Technical Indonesian - Course II	7 7K	3
2146060 Indonesian Language Course for Exchange Basic of Indonesian Language for Student Exchange Program to Indonesia Z 2 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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 Severend material a jejich odpovídající vlastnosti. Rovn ž se v nuje aktuálním vývojovým trend m t chto skupin. The subject	2111002			
Basic of Indonesian Language for Student Exchange Program to Indonesia 2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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 Skupita	21/6060		7	2
2146061 Technical Indonesian - Course I. Second part of Indonesian Language for Student Exchange Program to Indonesia Z 2 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. Z,ZK 4 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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	2140000		2	2
Second part of Indonesian Language for Student Exchange Program to Indonesia 2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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	0146004		7	0
2182019 Chemistry KZ 3 General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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	2140001		4	2
General chemistry from the point of view of mechanical and process engineering. Physical chemistry forms 2/3 of the course (structure and properties of matter, thermodynamics, phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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	0400040			
phase equilibrium, chemical reactions, reaction engineering), the remaining 1/3 is devoted to organic chemistry (hydrocarbons, polymers) and biochemistry. Laboratory practice is oriented upon the material properties measurement. 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection 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			1	-
oriented upon the material properties measurement. 2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. Z,ZK 5 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	-			-
2321039 Materials Science II. Z,ZK 4 Fundamentals of metallurgy, iron-carbon alloys and influence of other elements, phase transformations, thermal, combined chemical and thermal and thermo-mechanical processing technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. 2,ZK 4 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 5	pnase equilibrium		mistry. Laboratory	practice is
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 alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. 2321067 Technical Application of Materials 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	0004000		7 7 7	· ·
technical iron-carbon alloys, non-ferrous metals and their alloys, plastics, structural ceramics, composites, selection of materials. 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	1		1	1 .
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 The subject	Fundamentals of me			I processing
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				1
				-
describes applicability of specific engineering material types and their characteristics. It deals with the current development trends in these materials as well.				
	describ	es applicability of specific engineering material types and their characteristics. It deals with the current development trends in these	materials as well.	

		Z,ZK	4
	acterizes individual groups of new construction materials. In addition to the development and physical nature of these materials, the materials are a standard and the standard and the standard are standard and the standard are standard and the standard are stand	,	
recently develope	d materials, their basic characteristics and mechanical properties are listed. Their technological possibilities, design applicability and are also presented.	methods of their de	esignations
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
	ting the characteristics of metals, polymers, composites and ceramics. Testing of material for the limited state is the basic methods in		
	ds. Test of resistance to brittle fracture, fatique, creep. Evaluation of technological properties. Defectoscopic method for detecting defe		r
2322029	Materials Science I.	KZ	3
	ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor erials, structure and properties of materials and their testing, fundamentals of thermodynamics, phases and phase transformations, ir		
2322041	Heat treatment undamentals of heat treatment, basic processes of heat and chemical-heat treatment of ferrous and non-ferrous metals, excursion fo	KZ	4
		KZ	2
2322091	Project preliminary submission of a bachelor thesis the students, under supervision of their supervisors, prepare a review summarizing and e	1	1
	mphasis on experimental technologies which can be applied in their bachelor theses. They can also mention a planned experiment o	-	
	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
Foundry properties	of metals. Treatment. Pouring. Casting solidification. Moulding and core making. Thermal treatment. Plastic deformation. Division of form		mi-products,
	heating-up. Cutting. Cold and hot forming. Welds. Weldability. Weldment testing. Thermal cutting. Brazing. Surface treatment	is.	
2331071	Automation of Production Processes	Z,ZK	5
	c technological processes - casting, welding, forming and finishing. Facilities and equipment required to automate offices. Mechanizat		
steel foundries. A	utomation and robotics of die casting process, including other peripherals. Designing and programming of robotic welding centers. De	esigning and progra	amming of
	robotic workstations for sheet metal forming. Design of automated forging cells. Design of automated finishing lines.		
2331505	Welding Technology	Z,ZK	4
2331506	Casting and Forming Technology	Z,ZK	5
	ion of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Production pr		
Accuracy, stock	material, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Plastic moulo production of a casting, forging or a stamping.	aings. Individual pr	ojects for
2222020		V7	4
2332038	Surface Treatment Technology an introduction to the topic of finishes (meaning and objectives of the field). They are introduced to the basics of corrosion distribution	KZ	
on corrosion protec	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec	d technologies finis	shes include
on corrosion protec	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse	d technologies finis	shes include
on corrosion protec	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec	d technologies finis	shes include
on corrosion protect coating technologie	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse (s (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment.	d technologies finis ological aspects, Te KZ	shes include echnological 3
on corrosion protect coating technologie 2332056 Principles of se	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 processes for stampings.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments.	shes include echnological 3 forgings.
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse as (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ex- design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g.	shes include echnological 3 forgings. Operational
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse es (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec- design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ	shes include echnological 3 forgings. Operational 2
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z	shes include echnological forgings. Operational 2 3
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec- design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventi	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin	shes include echnological forgings. Operational 2 3 g, method
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec- design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin	shes include echnological forgings. Operational 2 3 g, method
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z on in manufacturin Organic coatings.	shes include echnological 3 forgings. Operational 2 3 g, method Ecological
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings.	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production proces	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, electroplating, electron processes for stampings) and tools (terial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production process sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment esurface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventive rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I . sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology of engineering production. Materials in engine	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z hical metals. Produ	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive prevention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z nical metals. Produ	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging.
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, electroplating, electron processes for stampings, and testing in the field of surface treatment is equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production process sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping is exuface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and casti	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z nical metals. Produ	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging.
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, electroplating, electron processes for the manufacturing of the manufacturing of stampings, presses and equipment. Production process sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment es usuface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventiverention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technology. Rouling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting techno	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z nical metals. Produ	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging.
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop for	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings is also eccess (such as electroplating method for semi-finished products. Production planning and production processes in the foundry. Production process sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping. Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivemention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technol	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z nical metals. Produ nology. Hot and co ding. Fusion weldin	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ig: Flame
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop for 2333993 2341001	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusses (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also eccess (such as electroplating, and testing in the field of surface treatment. Proparations and Tools Election of the manufacturing method for semi-finished products. Production planning and production of a casting, forging or a stamping project Surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventive retion. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing, aspects of surface treatments. Fundamentals of Technology I. Esses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech orging. Rolling. Production of pipes. Bulk and sheet metal	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z incal metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop for 2333993 2341001 Metrology, intergrat	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec- design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventi rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sess in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of weld welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. Z incal metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK undary standarts. M	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergratt in 1, 2, end 3 co	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techrs 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 welding welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seccord ordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z ion in manufacturin Organic coatings. C incal metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK undary standarts. M ure - roughness, w	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement awiness.
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techno sting. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of weld welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and sec tordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z on in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK ndary standarts. M ure - roughness, w	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement awiness. 4
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergratt in 1, 2, end 3 cc 2341002 Cutting tools cha	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment a surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventi rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sees in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech orging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of weld welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and secc ordinates. Laserinterferometres and their applications. Geometrical quantities metrology. Measurement uncertainty. Primary and secc tordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Z on in manufacturin Organic coatings. C nical metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK ndary standarts. M ure - roughness, w Z,ZK measurement. Cu	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement awiness. 4 tting tools
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergratt in 1, 2, end 3 cc 2341002 Cutting tools cha	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also excludes and testing in the field of surface treatment. Preparations and Tools lection 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 processes sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventiterention. Corrosion testing. Surface pre-treatment. Converse coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech reging. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seccordinates. Laserinterferometres and their applications. Geometrical quantities metrology. Measurement uncertainty. Primary and seccordinates. Laserinterferometres and their applications, Geometrical quantities metrology. Measurement uncertainty. Primary and seccordinates. Laserinterferometres and their applications, geometrical surface properties. Form - and position	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Z on in manufacturin Organic coatings. C nical metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK ndary standarts. M ure - roughness, w Z,ZK measurement. Cu	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement awiness. 4 tting tools
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergratt in 1, 2, end 3 cc 2341002 Cutting tools cha elements design.	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also exclusing and testing in the field of surface treatment. Preparations and Tools lection 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 processes for stampings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment s unfact treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventitention. Corrosion testing. Surface pre-treatment. Converse coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sess in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seccordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools cutting tools design including heat treatment and surface finish, application fields. Cutting tool geometry, determination and Cutting tools design including dimensioning. Cutting tools production. Bacic tools groups description and their use (turning tools, milli tools. Grinding, use and maintenance of cutting tools.	d technologies finis ological aspects, Te KZ tion processes for ses for weldments. g. KZ Z on in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z Z,ZK ndary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig old forging. ng: Flame 5 5 easurement awiness. 4 tting tools cial cutting
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment a surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventivention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing, aspects of surface treatments. Fundamentals of Technology I. ses in engineering production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical quantities metrology. Measurement uncertainty. Primary and seccordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools C	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Zon in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z,ZK mdary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 easurement awiness. 4 tting tools cial cutting 5
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment a surface treatments - branch signification and objects. Prioticples of corrosion, types and corrosion distribution. Anticorrosive preventiterention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. ses in engineering production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welk welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools racteristics. Cutting tool geometry, determination and Surface final, using tools. Cutting tools racteristics. Cutting tool geometry, determination and Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, millitio tools. Grinding, use and maintenance of cutting tools. Technology II.	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Zon in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z,ZK mdary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 easurement awiness. 4 tting tools cial cutting 5
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014 mechanics of chip for	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Producterial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production process sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment e surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventil rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. sess in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, technoling. Production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of wele welding and acetings with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools cutting tools cost design including heat treatment and surface finish, application fields. Cutting tool geometry, determination and Cutting tools design including heat treatment and surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools cost design including dimensioning. Cutting tools production. Basic tools groups description and their use (turn	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Croatings. Croatings. Produ nology. Hot and co ding. Fusion weldin Z,ZK ndary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK mics. Automation of	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 5 easurement rawiness. 4 tting tools cial cutting 5 f processes,
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergratt in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014 mechanics of chip for 23341068	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools lection 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 sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment a surface treatments - branch signification and objects. Prioticples of corrosion, types and corrosion distribution. Anticorrosive preventiterention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing. aspects of surface treatments. Fundamentals of Technology I. ses in engineering production of pipes. Bulk and sheet metal forming. Welding technology. The characteristics of the various types of welk welding and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools racteristics. Cutting tool geometry, determination and Surface final, using tools. Cutting tools racteristics. Cutting tool geometry, determination and Cutting tools design including dimensioning. Cutting tools production. Basic tools groups description and their use (turning tools, millitio tools. Grinding, use and maintenance of cutting tools. Technology II.	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z,ZK ndary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 5 easurement rawiness. 4 tting tools cial cutting 5 f processes, 5
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014 mechanics of chip for 23341068 Development of	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also ec design and testing in the field of surface treatment. Preparations and Tools ection of the manufacturing method for semi-finished products. Production planning and production processes in the foundry. Producterial, utilized equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production processes for stampings. Manufacturing of stampings, presses and equipment. Production processes sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stampin Project Surface Treatment s surface treatments - branch signification and objects. Principles of corrosion, types and corrosion distribution. Anticorrosive preventite rention. Corrosion testing. Surface pre-treatment. Converse coatings, enamels. Inorganic coatings, electroplating, hot-dip galvanizing, aspects of surface treatments. Fundamentals of Technology I. ses in engineering production. Technology of engineering production. Materials in engineering. Concepts of steel and cast iron, techr sting: modeling devices, molding materials, molding and castings. Foundry alloys. Overview of basic casting technology. Forming tech used log willing and arc welding with coated electrodes. Thermal cutting. Bachelor Thesis Metrology ion into quality control, legal metrology, metrology system. Geometrical surface properties. Form - and position deviations. Surface struct Measurement automatisation. Cutting tools cating tools design including heat treatment and surface finish, application fields. Cutting tools design including heat treatment and surface fors ours description and their use (turning tools, milling tools. Gerinding, use and maintenance of cutting tools. Technology III. Cutting tools Surface Su	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Zon in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z,ZK mdary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK mics. Automation of Z,ZK	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 5 easurement rawiness. 4 tting tools cial cutting 5 f processes, 5 nics and
on corrosion protect coating technologie 2332056 Principles of se Accuracy, stock ma 2332091 2333017 Introduction to the anticorrosive prev 2333038 Production process iron and steel. Ca Free and drop fo 2333993 2341001 Metrology, intergrat in 1, 2, end 3 cc 2341002 Cutting tools cha elements design. 2341014 mechanics of chip for 23341068 Development of ecology.Influence	tion in engineering and other industries. Are reconstructed surface preparation processes (mechanical, chemical). Among the discusse is (such as electroplating, zinc plating) technology conversion layers, further application of organic coatings. An important issue is also exidesign and testing in the field of surface treatment. Preparations and Tools 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 processes sequence, filler materials, equipment. Plastic mouldings. Individual projects for production of a casting, forging or a stamping Project Surface Treatment a 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. Fundamentals of Technology I. 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 regime. Rolling. Production of pipes. Bulk and sheet metal forming. Welding technology. Measurement uncertainty. Primary and secc orordinates. Laserinterferometres and their applications. Geometrical quantities metrology. Measurement uncertainty. Primary and secc orordinates. Laserinterferometres and their applications. Geometrical quantities metrology. Measurement uncertainty. Primary and secc orordinates. Laserinterferometres and their applications. Geometrical quantities metrology. Measurement uncertainty. Primary and secc orordinates. Laserinterferometres and their applications. Geometrical surface properties. Form - and position deviations. Surface struct	d technologies finis ological aspects, Te tion processes for ses for weldments. g. KZ Organic coatings. Zon in manufacturin Organic coatings. Z nical metals. Produ nnology. Hot and co ding. Fusion weldin Z,ZK mdary standarts. M ure - roughness, w Z,ZK measurement. Cu ng tools, etc.). Spe Z,ZK mics. Automation of Z,ZK ngineering econom s, grinding difficult-	shes include echnological 3 forgings. Operational 2 3 g, method Ecological 3 ction of pig pold forging. ng: Flame 5 5 easurement rawiness. 4 tting tools cial cutting 5 f processes, 5 nics and materials.

2341515	Manufacturing process planning	Z,ZK	4	
	Manufacturing process planning	,		
	Objective of the course in terms of learning outcomes and competences. The aim of the course is to acquaint students with modern approaches and methodology of designing machining			
processes with regard to minimization of material consumption and economic efficiency of the machining process. Next, introducing students to the designing of assembly processes				
with respect to tech	nical and organizational conditions. Further, the aim of the subject is to explain the issue of standardization of work with regard to the	e type of process a	ind the type	
	of performed activity.			
2342005	Quality Control	KZ	2	
Basic quality control	ol terms, where is quality created, who is responsible for a quality. Basic statistical terms and distributions. Statistical methods: statisti	cal process contro	l, statistical	
san	npling. Tools and methods for a quality assurance during product lifetime cycle. Standards 9 000 and 14 000, certification of quality co	ontrol systems.		
2342032	Automation of machine tool programming	KZ	3	
	Utilizations of computer technique for preparation of NC programs for lathe and milling machinery. Utilizations of probes on CNC ma	chine tool.		
2342091	Project	KZ	2	
	Work on specialized tasks.			
2343993	Bachelor thesis	Z	5	
Sources of 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 these	sis.		
2372041	Computer Support for Study	KZ	3	
The course introdue	ces students into creating technical and professional documents on computers or Web and into realizing technical computations with t	ne use of compute	rs. Students	
gain practica	al skills by creating an essay in a text editor, by realizing technical computations with a spreadsheet calculator, and by creating techni	cal-based WWW p	age.	
2383001	Fundamentals of Law	Z	2	
Basic orientation ir	legal system is a necessary part of professional equipment of each expert with university degree. The aim of this course is to provid	e a view into the C	zech Legal	
Order, particular so	purces of law and system of law (branch of law), using tutorials, lectures, specialised literature and significant legal regulations. It is ne	ecessary for stude	nts to know	
our legal institutio	ns, that will be regularly in touch with, especially during their professional career and to learn how to work with the collection of laws.	At the same time t	he course	
leads students to k	now some practical habits and processes while putting the law on, especially in domain of contracts and other important legal relation:	ships and to make	them ready	
	to prepare professional presentations and to understand basic structures between law and engineering			

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-05-25, time 04:52.