Study plan

Name of study plan: Aplikovaná informatika

Faculty/Institute/Others: Department:
Branch of study guaranteed by the department: Welcome page
Garantor of the study branch:
Program of study: Applied Informatics
Type of study: Bachelor full-time
Required credits: 0
Elective courses credits: 180
Sum of credits in the plan: 180
Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 0 The role of the block: P

Code of the group: BSPAPIN1 Name of the group: BS P_APIN 1st year Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 19 courses Credits in the group: 0 Note on the group:

Note on the g	Name of the course / Name of the group of courses	1			1	
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	2	2+0	Z	Р
02FY1	Physics 1 Jaroslav Biel ík Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z,ZK	4	2P+2C	Z	Р
02FY2	Physics 2 Jaroslav Biel ík Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z,ZK	4	2P+2C	L	Р
01MATZ1	Mathematics, Examination 1 Radek Fu ík Radek Fu ík Radek Fu ík (Gar.)	ZK	2	-	Z	Р
01MATZ2	Mathematics, Examination 2 Radek Fu ík, Mat j Tušek Mat j Tušek Radek Fu ík (Gar.)	ZK	2	-	L	Р
01MAT1	Mathematics 1 Radek Fu ík Radek Fu ík Radek Fu ík (Gar.)	Z	4	3P+3C	Z	Р
01MAT2	Mathematics 2 Radek Fu ík Radek Fu ík Radek Fu ík (Gar.)	Z	4	3P+3C	L	Р
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	Р
04APKK	Course in Communication Skills - Examination Slav na Brownová, Nathaniel Patton, Beatriz Vadillo Gonzalo	ZK	1		L	Р
04APK1	Course in Communication Skills 1 Jana Ková ová	Z	2	2S	Z	Р
04APK2	Course in Communication Skills 2	Z	2	2S	L	Р
04APS1	Course in Language Structures 1 Jana Ková ová	KZ	3	2S	Z	Р
04APS2	Course in Language Structures 2 Nathaniel Patton	KZ	3	2S	L	Р
04APUK	Introduction to English for Specific Purposes - Examination Slav na Brownová, Nathaniel Patton Jana Ková ová	ZK	1		L	Р
04APU1	Introduction to English for Specific Purposes 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	Р
04APU2	Introduction to English for Specific Purposes 2 Jana Ková ová	Z	2	2S	L	Ρ
12UNXAP	Introduction to UNIX Milan Kucha ík Milan Kucha ík Milan Kucha ík (Gar.)	Z	2	1P+1C	L	Р

18ZALG	Basics of Algorithmization Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, František Gašpar, Zuzana Pet í ková Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	Р
18ZPRO	Basics of Programming Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, Zuzana Pet í ková, Nichita Vatamaniuc, Jan Vondruška, Maksym Dreval, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	Р
Characteristics of th	e courses of this group of Study Plan: Code=BSPAPIN1 Name=	BSP APIN 1	st vear		Į	1
	listory of Physics 1		St year	1	7	2
	e system of sciences. The relationship of man and nature. Natural sciences in ancient O	rientand Greece.	Greek natura	 hilosoph le		—
	d. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano					
as experimental science. N	lewton and his work.					
02FY1 P	hysics 1			Z	Z,ZK	4
History, principles and app	lications of mechanics, waves and thermodynamics ? basic level. The lecture is supplen	nented with practi	cal investiga	tion and de	monstration o	of selected
physical phenomena.						
02FY2 P	hysics 2			Z	Z,ZK	4
Thermodynamics, electricit	ty and magnetism, modern physics. The lecture is supplemented with practical investiga	ation and demonst	ration of sele	ected physic	cal phenomer	na.
01MATZ1 N	lathematics, Examination 1				ZK	2
01MATZ2 N	lathematics, Examination 2				ZK	2
01MAT1 N	lathematics 1				Z	4
The course is devoted to the	ne study of the basics of calculus of one variable. It includes an introduction to differentia	al and integral cal	culus, with pa	articular em	phasis on ap	plications in
practical problems.						
01MAT2 N	lathematics 2				Z	4
The course, which is the co	ontinuation of Mathematics 1, is devoted to the integration techniques, improper Rieman	nn integral, introdu	iction to para	metric curv	es (especiall	y in polar
<i>/</i> .	sequences and infinite series, and finally to the Taylor and power series and their applic	cations.				
00PT P	reparatory Week				Z	2
04APKK C	ourse in Communication Skills - Examination				ZK	1
The course content is the e	examination as given by the study plan. The examination tests how well student has mas	stered vocabulary	and facts of	courses 04	APK1 and 04	4APK2. The
	o parts - written (duration 100 minutes), and oral (about 30 minutes).					
04APK1 C	ourse in Communication Skills 1				Z	2
	mmunication strategy and skills of student acquired at secondary school or elsewhere.	-		-	-	
	nesters, being a core course of the Applied Information Technology programme. It will d				•	
-	n a topic). The list of topics is similar to that of the State Language Examination. Student	-	-	or various of	communicatio	on situations
	unication strategy. He/she will be trained to express his/her ideas clearly and according	to current English	i usage.		7	
	ourse in Communication Skills 2 ned with developing speaking skills in English acquired at secondary school and course	04ADK1 Speakin	a okillo will k	 he trained a	Z	2 ping akilla
	everyday life and cover topics of the State Language Examination, stressing mastery of		-		-	-
· ·	bulary, ability to express thoughts with accuracy in correct English.	speaking strategy		100113. 1		i empriasise
	ourse in Language Structures 1				KZ	3
	instruct how to correctly use and to revise English grammar structures acquired by stud	ent at secondary	school. deve	1		-
-	then them. The required level for registration is B1 of CEFR. The course stresses mainly					
students.						
04APS2 C	ourse in Language Structures 2				KZ	3
	equel to course 04APS1. Its purpose is also to correctly use and revise further English g	grammar structure	s as acquire	d and deve	lop them.	
04APUK Ir	troduction to English for Specific Purposes - Examination				ZK	1
	examination as given by the study plan. Examination 04APUK consists of two parts - wri					
	emester programme. To be eligible for examination, student will have passed courses 04.		2 and the ex	amination	test in written	part. Student
	se the acquired basic knowledge and skills typical of English for Specific Purposes (ESF	^o).				
	troduction to English for Specific Purposes 1				Ζ	2
	tudent into English for Specific Purposes (ESP) and acquaint him/her with its functions	in subtechnical or	easy techni	cal texts. It	brings vocab	ulary and
	d it introduces student to basic mathematics and information technology terms.					
	ntroduction to English for Specific Purposes 2			Ι.	Ζ	2
	equel to course 04APU, concentrating more thoroughly on ESP text content, text gramm	nar and vocabular	y. It introduce	es more ad	vanced functi	ons typical of
	nformation technology terms.				7	0
	Introduction to UNIX	dovices hard dial	, notwork in	 harfaaa Har		2
	ystems. Personal computer, workstation and supercomputers. Processor, memory, bus, tems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation.					
	II) bash and its programming (scripts). Controlling processes, process status, computer			•		
	vorks. Local computer networks. Global computer networks. Addresses and protocols T				-	
	p, etc. Network applications		0			
	asics of Algorithmization			Z	Z,ZK	4
	elected algorithms and methods for algorithm design. This course intruduces selected n	methods for the de	etermination			
	asics of Programming				Z	4
	ainly for students with little or no experience in programming. It familiarizes the students	with the basic cor	cepts in pro	gramming a	1	
programming language.				5		
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Code of the group: BSPAPIN2 Name of the group: BS P_APIN 2nd year Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 20 courses

Credits in the group: 0 Note on the group:

Zápis do kurzu 04APO1 se důrazně doporučuje až po získání zápočtu z 04APS2.Zápis do kurzu 04APA je podmíněn složením zkoušky z předmětu 04APS3.

Tutors, authors and guarantors (gar.) 04APA Course in Applied English Usage 04APAK Course in Applied English Usage - Examination Nathaniel Patton 01DIM1 Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo ákov Zuzana Masáková (Gar.) 01DIM2 Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková 04APR1 Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	Z	1 2 2 2 2 2	2S 2P+0C 2P+0C 2S	L L Z L	P P P P
Odapek Course in Applied English Usage - Examination Nathaniel Patton 01DIM1 Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo ákov Zuzana Masáková (Gar.) 01DIM2 Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) 04APR1 Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	ZK á Z Z Z	2 2 2 2	2P+0C 2P+0C	L Z	P
Nathaniel Patton O1DIM1 Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo ákov Zuzana Masáková (Gar.) O1DIM2 Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) O1DIM2 Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	á Z Z Z	2	2P+0C	Z	Ρ
01DIM1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo ákova Zuzana Masáková (Gar.) 01DIM2 Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) 04APR1 Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	Z	2	2P+0C		
01DIM2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) 04APR1 Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	Z			L	Ρ
04APR1 CR 1 Jana Ková ová	Z	2	2S		
Mathematics 3	ik Z,ZK	1		L	Ρ
01MAT3 Miroslav Kolá , David Krej i ík, Severin Pošta David Krej i ík David Krej i í (Gar.)		4	2+2	Z	Р
01MAT4 Mathematics 4 Mat j Tušek Mat j Tušek (Gar.)	Z,ZK	4	2+2	L	Ρ
12PAS Computer Algebra Systems Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	Z	Ρ
04APO1 Text Analysis and Comprehension Jana Ková ová	Z	2	2S	Z	Ρ
04APOK Text Analysis and Comprehension - Examination Jana Ková ová Jana Ková ová	ZK	1		L	Ρ
04APO2 Text Analysis and Comprehension 2 Jana Ková ová	Z	1	2S	L	Ρ
18PRC1 Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	Ρ
18PRC2 Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	КZ	4	2+2	L	Ρ
18PJ Programming in Java Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	Ρ
04AP3KK Course in Communication Skills - Final Examination Nathaniel Patton Jana Ková ová	ZK	2		Z	Ρ
04APK3 Course in Communication Skills 3 Jana Ková ová	Z	1	2S	Z	Ρ
04APSK Course in Language Structures - Final Examination Nathaniel Patton Jana Ková ová	ZK	2		Z	Ρ
04APS3 Course in Language Structures 3 Jana Ková ová	Z	1	2S	Z	Ρ
18INTA Development of internet applications Jakub Klinkovský, Dana Majerová Dana Majerová Dana Majerová (Gar.)	KZ	4	2P+2C	L	Ρ
12UVP Introduction to Scientific Computing Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	Ρ
Characteristics of the courses of this group of Study Plan: Code=BSPAPIN2 Name	=BS P_APIN 2	2nd year			
04APA Course in Applied English Usage				Z	1
To sign in for the course, student will have passed final examination in Course in Language Structures (04APSK)			0		• •
to understanding everyday and ESP language situations, laying stress on choice of exact and adequate languag translations	e and grammar stru	uctures in bo	oth English-	Czech and Cze	ch-Engli
04APAK Course in Applied English Usage - Examination				ZK	2

04APAK	Course in Applied English Usage - Examination	ZK	2
The course conter	nt is the examination as given by the study plan. Written and oral parts of the examination test skills and knowl	ledge acquired in course 04APA. Durati	on: written par
- 100 minutes, ora	I part - ca 30 minutes.		
01DIM1	Discrete Mathematics 1	Z	2
The seminar is de	voted to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2	Z	2
The seminar is de	voted to recurrence relations. It includes individual problem solving.		
04APR1	Life and Institutions of English-speaking Countries and the CR 1	Z	2
	ed at preparing the student for the state language examination and is based on topics required for this examin cts about English speaking-countries in comparison with the Czech Republic. The course covers one third of to		-
01MAT3	Mathematics 3	Z,ZK	4
The subject summ	narises the most important notions and theorems related to the study of finite-dimensional vector spaces.		
01MAT4	Mathematics 4	Z,ZK	4
Linear and non-lin	ear differential equations of the first order. Linear differential equations of higher order with constant coefficien	ts. Multivariable calculus and its application	ations.
12PAS	Computer Algebra Systems	Z	2
•	d introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. pasic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.	Constituent part is realized in compute	r classrooms:

The course orders is a sequel in the 04APU and 04APU2 courses and students will have successfully passed the 04APS2 courses. It focuses on further written functions specific to English in written and ordi communication is given to the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2.courses are study the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2.courses The examination consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses. The tourse for take the examination students will have successfully completed the 04APO1 and 04APO2.courses The examination consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract), it is intended as preparation for writing the bacisc of English punctuation. 04APO2 Text Analysis and Comprehension 2 Z 1 The course course dAPO1 and focuses on guided writing (e.g., note-taking, précis, abstract), it is intended as preparation for writing the bacisc to eligish punctuation. Z 4 This course covers the object oriented programming and and these advanced constructs in the C++ language. Z 4 This course content is the examination on take pair advanced constructs in the C++ programming language and non-object oriented frequencies. Z 5 04AP3K Course in Communication Skills - Final Examination <	04APO1	Text Analysis and Comprehension	Z	2
In written and oral communication. 04APOK Text Analysis and Comprehension - Examination ZK 1 new correst content is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2 courses The examination consists of two parts. written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses. 04APO2 Text Analysis and Comprehension 2 Z 1 The course is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquatining with basics of English punctuation. 13PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming in 0++ 2 KZ 4 This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Z,ZK 5 04AP3K Course in Communication Skills 1 - Final Examination 0A4P3KK covers syllab of all three courses in communication skills. It is usually oral, but a written test may be administered. Examination requirements are similar to those of state examination. Student will be able to engage in communication skills. It is usually oral, but a written test may be administered. Examination Requirements are similar to those of state examination 0AAP3KK covers syllab of all three courses in communication skills. It is usually oral, but a written test may be administered. Examination			itten functions sp	ecific to English
In written and oral communication. 04APOK Text Analysis and Comprehension - Examination ZK 1 new correst content is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2 courses The examination consists of two parts. written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses. 04APO2 Text Analysis and Comprehension 2 Z 1 The course is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquatining with basics of English punctuation. 13PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming in 0++ 2 KZ 4 This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Z,ZK 5 04AP3K Course in Communication Skills 1 - Final Examination 0A4P3KK covers syllab of all three courses in communication skills. It is usually oral, but a written test may be administered. Examination requirements are similar to those of state examination. Student will be able to engage in communication skills. It is usually oral, but a written test may be administered. Examination Requirements are similar to those of state examination 0AAP3KK covers syllab of all three courses in communication skills. It is usually oral, but a written test may be administered. Examination				•
The ocurse content is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2.courses The examination consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses O4APO2 Text Analysis and Comprehension 2 Z 1 The ocurse is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquainting with basics of English punctuation. 18PRC1 Programming in C++ 1 This course covers mainly the C programming in C++ 2 This course covers mainly the C programming in C++ 2 This course to bject oriented programming and othesr advanced constructs in the C++ language. 18PRC1 Programming in C++ 2 Programming in D++ Evelopeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee			0	0 0
The ocurse content is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 04APO1 and 04APO2.courses The examination consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses O4APO2 Text Analysis and Comprehension 2 Z 1 The ocurse is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquainting with basics of English punctuation. 18PRC1 Programming in C++ 1 This course covers mainly the C programming in C++ 2 This course covers mainly the C programming in C++ 2 This course to bject oriented programming and othesr advanced constructs in the C++ language. 18PRC1 Programming in C++ 2 Programming in D++ Evelopeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	04APOK	Text Analysis and Comprehension - Examination	ZK	1
The examination consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the knowledge and skills acquired in both courses. OAAPO2 Text Analysis and Comprehension 2 I The course is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquaining with basics of English punctuation. 18PRC1 Programming in C++1 Z 4 This course covers mainly the C programming and othesr advanced constructs in the C+;+ programming language and non-object oriented features of the C++ language. KZ 4 This course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the standard Template Library. IProgramming in Java Z,ZK 5 This course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the standard Template Library. IProgramming in Java Z,ZK 5 OtaPAP3K Course in Communication Skills - Final Examination ZK 2 1 The text may be adimistreed. Examination out by by the study plan. Final examination. Student will be able to engage in communication skills. It is usually oral, but a written text may be adimistreed. Examination course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covereste without making mistakes and making use of appropriate vocabula				4APO2 courses
both courses. 04APO2 Text Analysis and Comprehension 2 Z 1 The course is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquainting with basics of English punctuation. 18PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming and othesr advanced constructs in the C++ language. KZ 4 18PRC2 Programming in C++ 2 KZ 4 18PJ Programming in Java Z,ZK 5 This course corters the object oriented programming and thesr advanced constructs in the C++ programming language and the Standard Template Library. 18PJ 18PJ Programming in Ava Z,ZK 5 This course corters the object oriented programming and the development of the basic types of applications for this platform. ZK 2 04AP3XK Course in Communication Skills - Final Examination ZK 2 1 04APASX Course in Communication Skills 3 Z 1 1 the assemester of conversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabul				
The course is a sequel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the bachelor's project by developing text grammar practice and acquaining with basics of English punctuation. 18PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming in 0C++ 1 KZ 4 This course covers the object oriented programming in 0C++ 2 KZ 4 This course is devolved to the Java platform and to the development of the basic types of applications for this platform. Z,ZK 5 04AP3K Course in Communication Skills - Final Examination APAP3KK covers sylabi of all three courses in communication and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04AP3K Course in Communication Skills 3 Z 1 The course content is the examination requirements are similar to those of state examination. Student will be able to engage in communication and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04APK3 Course in Language Structures - Final Examination ZK 2 1 04APK3 Course in Language Structures - Final Examination ZK 2 1 04APK3 Course in Language Structures - Final Examination ZK 2 1				
text grammar practice and acquainting with basics of English punctuation. 18PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming language and non-object oriented features of the C++ language. KZ 4 18PRC2 Programming in C++ 2 KZ 4 This course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template Library. 18PJ Programming in Java Z,ZK 5 This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Z/ZK 2 04AP3KK Course in Communication Skills - Final Examination ZK 2 1 The course content is the examination requirements are similar to those of state examination. Student will be able to engage in communication and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04APK3 Course in Communication Skills 3 Z 1 The last semester of conversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabulary. 2K 2 1 Ourse in Language Structures - Final Examination ZK 2	04APO2	Text Analysis and Comprehension 2	Z	1
18PRC1 Programming in C++ 1 Z 4 This course covers mainly the C programming language and non-object oriented features of the C++ language. KZ 4 18PRC2 Programming in C++ 2 KZ 4 This course covers the object oriented programming and othesr advanced constructs in the C++ programming language and the Standard Template Library. 18PJ Programming in Java Z,ZK 5 18PJ Programming in Java Z,ZK 5 2 1 The course is devoted to the Java platform and to the development of the basic types of applications for this platform. ZK 2 04AP3KK Course in Communication Skills - Final Examination 0AAP3KK covers syllabi of all three courses in communication skills. It is usually oral, but a written test may be administered. Examination and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04APK3 Course in Communication Skills 3 Z 1 The last semester of conversation course. Student will thref develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabulary. 4 04APSK Course in Language Structures - Final Examination ZK 2 The course cothert is the examination as given by the study plan. To register	The course is a sequel	o course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the	bachelor's proje	ect by developing
This course covers mainly the C programming language and non-object oriented features of the C++ language. KZ 18PRC2 Programming in C++ 2 KZ 4 This course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template Library. 2,ZK 5 04AP3KK Course in Communication SKIIIs - Final Examination ZK 2 The course content is the examination requirements are similar to those of state examination. Student will be able to engage in communication skills. It is usually oral, but a written test may be administered. Examination requirements are similar to those of state examination. Student will be able to engage in communication skills. It is usually oral, but a written test may be administered. Examination requirements are similar to those of state examination. Student will be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabulary. It he last semester of conversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabulary. It he last semester of conversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses 04APSI, 04APS2, and 04APS3. It consists of two parts: written (duration 100 minutes) and oral (duration about 30 minutes). Student will demonstrate he/she has mastered English grammar and can reliably use It in practice as well as explain why a rule applies. It he course 04APS3.	text grammar practice a	nd acquainting with basics of English punctuation.		
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18PJ Programming in Java Z,ZK 5 04AP3KK Course in Communication Skills - Final Examination ZK 2 The course content is the examination as given by the study plan. Final examination 04AP3KK covers syllabil of all three courses in communication and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04AP3K Course in Communication Skills 3 Z 1 The course content is the examination requirements are similar to those of state examination. Student will be able to engage in communication and discussion on a given topic, using appropriate vocabulary and grammar structures. Z 1 04APK3 Course in Communication Skills 3 Z 1 The last semester of conversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about topics covered by previous courses without making mistakes and making use of appropriate vocabulary. 2K 2 04APSK Course in Language Structures - Final Examination 04APSK student will have passed a 3-semester programme comprising courses 04APS1, 04APS2, and 04APS3. It consists of two parts: written (duration 100 minutes) and oral (duration about 30 minutes). Student will demonstrate he/she has mastered English grammar and can reliably use it in practice as well as explain why a rule applies. 2 1 04APS3 Course in Language Structures 3 Z 1 04APS3 </td <td>This course covers the</td> <td></td> <td>Library.</td> <td></td>	This course covers the		Library.	
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	12UVP	Introduction to Scientific Computing	Z	2
and technicval computing, data analysis, data visualisation and algorithm development.			some basic tools	s fort scientific
	and technicval computing	ng, data analysis, data visualisation and algorithm development.		

Code of the group: BSPAPIN3

Name of the group: BS P_APIN 3rd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 18 courses

Credits in the group: 0

Note on the group: Předmět 04API je důrazně doporučeno zapsat až po splnění zkoušek 04APOK a 04APAK.) Předmět 04APJP lze zapsat až po splnění všech zápočtů a zkoušek pěti semestrů 1.-3. ročníku studia angličtiny.Předmět 01BPAI2 lze zapsat až po složení zkoušky z předmětu 04APSK.

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
01BPAI1	Bachelor's Degree Project 1 Pavel Strachota, Václav K s Pavel Strachota Pavel Strachota (Gar.)	Z	5	0+5		Р
01BPAI2	Bachelor's Degree Project 2 Pavel Strachota Pavel Strachota (Gar.)	Z	10	0+10		Р
01EIG	Elementary Introduction to Graph Theory Petr Ambrož, Zuzana Masáková Petr Ambrož Edita Pelantová (Gar.)	ZK	3	2P+0C		Р
04JPBP	Language Support to Bachelor Project Jana Ková ová Jana Ková ová (Gar.)	Z	3	2S	L	Р
04APJP	Language Support to Bachelor Project Nathaniel Patton, Darren Copeland Jana Ková ová	Z	5	5S	L	Р
04APRK	Life and Institutions of English-speaking Countries and the CR - Examination Nathaniel Patton Jana Ková ová	ZK	3		z	Ρ
04APR2	Life and Institutions of English-speaking Countries and the CR 2 Jana Ková ová	Z	2	4S	z	Ρ
01PGR1	Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		Р

01PGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		Р
01SITE1	Computer Networks 1 Miroslav Minárik Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	Z	Р
01SITE2	Computer Networks 2 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	L	Р
04API	Presentation Course Jana Ková ová	Z	2	2S	Z	Р
01PW	Windows Programming Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	Р
01BASE	Bachelor Seminar Pavel Strachota Pavel Strachota (Gar.)	Z	1	0P+2S		Р
01UOP	Introduction to Object Programming Zden k ulik Zden k ulik Zden k ulik (Gar.)	ZK	2	0+2		Р
01UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		Р
01UP2	Introduction to Probability 2 Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		Р
01UTEI	Introduction to Theoretical Informatics Petr Ambrož Petr Ambrož Petr Ambrož (Gar.)	ZK	3	2P+0C		Р
01ZAOS	Introduction to Operating Systems Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z,ZK	2	2+0	L	Р
Characteristics of the	courses of this group of Study Plan: Code=BSPAPIN3 Name=	BS P_APIN 3	rd year			
	chelor's Degree Project 1				Z	5
	n the selected topic under the supervision. Supervision and regular checking of the bac chelor's Degree Project 2	chalor project und	ier preparat	on.	Z	10
	n the selected topic under the supervision. Supervision and regular checking of the bac	chalor project unc	ler preparati	on.	-	10
	ementary Introduction to Graph Theory lanation of basics of graph theory, followed by a survey of common graph algorithms.				ZK	3
	nguage Support to Bachelor Project				Z	3
To sign in for the course stud	ents will have passed all the English courses from the previous 5 semesters. The course					
	Project in English. Their progress is continuously monitored and assessed. To finish the	e course, student	s will give a	presentation	n of their Bac	-
	nguage Support to Bachelor Project lents will have passed all the English courses from the previous 5 semesters. The cours	o instructs studon	te in the etre	togy of writi	Z	5 a procenting
5	Project in English. Their progress is continuously monitored and assessed. To finish the					
	e and Institutions of English-speaking Countries and the CR - Exam				ZK	3
The course content is the ex	amination as given by the study plan. To be eligible to take the examination students w	ill have successfu				
	two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will pro-	ove they can use	and apply th	ne knowledg	e and skills a	cquired in
both courses.	e and Institutions of English-speaking Countries and the CR 2				Z	2
1 · · · · · · · · · · · · · · · · · · ·	PR1 course is again aimed at preparing the student for the state language examination	and is based on to	pics require	ا d for this ex		_
	sentation of facts about English speaking-countries in comparison with the Czech Rep					
language examination.	•					
	mputer Graphics 1	nonning from hist			.,ZK	2 Surther
	ester "Computer Graphics" course is devoted to the specifics of digital display devices s lems in 2D computer graphics is given together with their solutions. Focus is put on mathe					-
	previously obtained in a variety of subjects available at FNSPE. The final part of the co	-	-	-		
	entific documents and presentations.			•	0 1 1	
01PGR2 Co	mputer Graphics 2			Z	"ZK	2
	semester "Computer Graphics" course begins with a brief introduction to signal theory				-	-
	ctured survey of fundamental problems in 3D computer graphics is given together with athematical description of problems and explanation of the corresponding algorithms us			-		
	plementation aspect such as data structures design etc. is also a matter of concern. In		-			
using Blender, an open-sour	ce 3D modeling and rendering software instrument.					
	mputer Networks 1				Z	2
	nd present network (LAN, WAN, use the principles and technologies). Architecture of re			-	-	
	ernet services - mail, remote access, www. Secure communication, tunneling. Directory s ork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises					
	mputer Networks 2	(Z	2
	nd present network (LAN, WAN, use the principles and technologies). Architecture of re	ference model IS	O/OSI. Netv	vork protoco	ls, practical e	exercises with
	ernet services - mail, remote access, www. Secure communication, tunneling. Directory s					
	ork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises	. (According to the	e interest - t	he serial co		-
	esentation Course ents for presenting issues in their field by mastering the strategies and techniques of or	al presentation. T	he course in	 	Z	2 ressing views
	greement). Students will be able to respond to comments on their presentation and and	-				-
-	of the Bachelor Project. Students will learn the basic structure of a Bachelor Project a	-			,	,
01PW Wi	ndows Programming or MS Windows. Basic editing controls. File input and output. User defined components			and reflectiv	Z	2
	chelor Seminar	, аупатно туре Ю	ionuncation		Z	1
	r, students familiarize themselves with the general principles of publishing and presenti	ng scientific work	and the for	ا mal requirer		-
	econd part is designed as a practical training for the defense of the bachelors degree p	-		-		-
the research results achieved	d during the work on their projects. Each presentation is followed by a discussion on scie	ntific matters as w	vell as on the	e possibilitie	s of improving	g the students
performance.						

01UOP	Introduction to Object Programming			Ì	ZK	2
	iming languages. Object oriented programming libraries for graphics, databases and di	stributed systems.		I		2
01UP1	Introduction to Probability 1			2	Z,ZK	3
	e set of possible results, classical probability, independent random events 2. Probability					
	, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discre		tribution and	d mean valu	e 6.Problems	involving the
	e 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and it	s variants				
01UP2	Introduction to Probability 2				Z,ZK	3
	tinuous random variable and its statistical description. 2. Distribution function and proba			-	-	
	erical characteristics of continuous random variables. 5. Selected variants of continuous ng pseudorandom numbers from the selected distribution.	s distributions and the	eir character	ISTICS. 6. EI	ementary metr	loas for point
01UTEI	Introduction to Theoretical Informatics				ZK	3
01ZAOS	Introduction to Operating Systems				Z,ZK	2
	of operating systems. Processes, thread, memory management. Synchronization of m	ulti-threaded applicat	ions. Memo			2
				7		
Name of the bl	ock: Compulsory elective courses					
	er of credits of the block: 0					
The role of the	block: PV					
Code of the ar	oup: BSSPOLVEDY					
0	oup: BS - Social Sciences					
•	•					
•	redits in the group:					
Requirement c	ourses in the group: In this group you have to com	plete at least	t 1 cou	rse		
Credits in the g	nuoun: 0					
Note on the ar		ourses is obliga	atorv.			
Note on the gr	Oup: Only one of these co	ourses is obliga	atory.		1	
	Oup: Only one of these contract of the course / Name of the course / Name of the group of courses		-	0	0	Bala
Note on the gr	Oup: Only one of these co	ourses is obliga	-	Scope	Semester	Role
	OUD: Only one of these control of the course / Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their		-	Scope	Semester	Role
	OUD: Only one of these constraints 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.) Economy in Technology		-	Scope 2+0	Semester	Role
Code 00EKOT	OUD: Only one of these constraints 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.) Economy in Technology Jana Ková ová	Completion	Credits		Semester	
Code	OUD: Only one of these constraints 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology	Completion	Credits		Semester	
Code 00EKOT 00ETV	OUD: Only one of these constraints 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová	Completion Z Z	Credits 1 1	2+0 0+2		PV
Code 00EKOT	OUD: Only one of these constraints 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology	Completion Z	Credits	2+0		PV
Code 00EKOT 00ETV 00RET	OUD: Only one of these constraints 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law	Completion Z Z Z	Credits 1 1 1	2+0 0+2 0+2		PV PV PV
Code 00EKOT 00ETV	OUD: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová	Completion Z Z	Credits 1 1	2+0 0+2		PV
00EKOT 00ETV 00RET	OUD: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology	Completion Z Z Z	Credits 1 1 1	2+0 0+2 0+2		PV PV PV
Code 00EKOT 00ETV 00RET 00UPRA	OUD: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová	Completion Z Z Z Z Z	Credits 1 1 1 1 1 1	2+0 0+2 0+2 0+2		PV PV PV PV
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY	OUD: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology	Completion Z Z Z Z Z Z Z	Credits 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2+0 0+2 0+2 0+2 0+2		PV PV PV PV
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY	Oup: Only one of these composition 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová	Completion Z Z Z Z Z Z Z	Credits 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2+0 0+2 0+2 0+2 0+2		PV PV PV PV
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Code 00EKOT 00ETV 00RET 00UPRA 00UPSY Characteristics of 00EKOT	Oup: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Economy in Technology	Completion Z Z Z Z Z Z Z	Credits 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2+0 0+2 0+2 0+2 0+2	L	PV PV PV PV PV
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY Characteristics of 00EKOT The course introduces t	Oup: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Ethe courses of this group of Study Plan: Code=BSSPOLVEDY I Economy in Technology ne basics of micro- and macroeconomics.	Completion Z Z Z Z Z Z Z	Credits 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2+0 0+2 0+2 0+2 0+2	L Z	PV PV PV PV PV
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY Characteristics of 00EKOT The course introduces t 00ETV 00RET	Oup: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Economy in Technology Economy in Technology Ethics of this group of Study Plan: Code=BSSPOLVEDY N Economy in Technology basics of micro- and macroeconomics. Ethics of Science and Technology	Completion Z Z Z Z Z Name=BS - Soci	Credits 1 1 1 1 1 ial Scien	2+0 0+2 0+2 0+2 0+2 0+2	Z Z	PV PV PV PV PV 1 1
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY Characteristics of 00EKOT The course introduces t 00ETV 00RET The course is focused of as well as to its nonverti	Oup: Only one of these co 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.) Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Economy in Technology Jakub Hají ek Jana Ková ová Entroduction to Psychology Jakub Hají ek Jana Ková ová Economy in Technology Economy in Technology Bakub Hají ek Jana Ková ová Ethics of Science and Technology Rhetoric Rhetoric Rhetoric Rescience Economy in Technology Rescience and Technology Rebasics of micro- and macroeconomics. Ethics of Science and Technology Rhetoric	Completion Z Z Z Z Z Ame=BS - Soc	Credits 1 1 1 1 1 ial Scien	2+0 0+2 0+2 0+2 0+2 0+2 ces	Z Z Z Z z position of put	PV PV PV PV PV 1 1 1 speech
Code 00EKOT 00ETV 00RET 00UPRA 00UPSY Characteristics of 00EKOT The course introduces t 00ETV 00RET The course is focused of	Oup: Only one of these composition 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.) Economy in Technology Jana Ková ová Ethics of Science and Technology Jakub Hají ek Jana Ková ová Rhetoric Jana Ková ová Jana Ková ová Introduction to Law Martin ech Jana Ková ová Introduction to Psychology Jakub Hají ek Jana Ková ová Economy in Technology Bana Ková ová Jana Ková ová Jana Ková ová Jana Ková ová Introduction to Law Martin ech Jana Ková ová Economy in Technology Jakub Hají ek Jana Ková ová Economy in Technology Bebasics of micro- and macroeconomics. Ethics of Science and Technology Rhetoric n the acquisition of speech and voice techniques and on the rules of correct pronounci	Completion Z Z Z Z Z Ame=BS - Soc	Credits 1 1 1 1 1 ial Scien	2+0 0+2 0+2 0+2 0+2 0+2 ces	Z Z Z Z z position of put	PV PV PV PV PV 1 1 1 speech

Code of the group: BSPJAZYKYZK-APIN

Name of the group: BS P languages APIN

Requirement credits in the group:

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

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
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV

04XFPZK	French for Advanced Students Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4	Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3	L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4	Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4	Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4	Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4	Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3	L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3	L	PV

Characteristics of the courses of this group of Study Plan: Code=BSPJAZYKYZK-APIN Name=BS P languages APIN

04XCESMZK Czech for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESM1,2,3 courses and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.
04XCESPZK Czech for Foreign Students - Advanced Examination ZK 4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESP1,2,3 courses and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.
04XFMZK French for Intermediate Students Examination ZK 4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.
04XFPZK French for Advanced Students Examination ZK 4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and is organized according to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.
04XFZZK French for Beginners Examination ZK 3
The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination is ruled by the docume
Instruction for examination. Its content covers the levels FZ1 - FZ5.
04XNMZK German for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - writt
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment. More detailed informatio
is to be obtained from the teacher.
04XNPZK German for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination consisting of two parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded assessment. More detailed
information is to be obtained from the teacher.
04XRMZK Russian for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RM
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions by the teacher.
04XRPZK Russian for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RF
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by the teacher.
04XRZZK Russian for Beginners Examination ZK 3
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher.
04XSMZK Spanish for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written part, students will have obtain
non-graded assessment for course SM3.Oral examination follows the written part.
04XSPZK Spanish for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is have
passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.
04XSZZK Spanish for Beginners Examination ZK 3
The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination only if he/she has
passed the written examination test.

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

Code of the group: BSPAPINV

Name of the group: BS P_APIN Optional courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: Státní jazykovou z

Státní jazykovou zkoušku z angličtiny lze absolvovat až po složení zkoušek ze všech kurzů, jejichž obsah je součástí.

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
04APSZK	English - State Examination Jana Ková ová	ZK	5	2S	L	V
01DEM	History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
18EKN	Econometrics Radek H ebik, Quang Van Tran Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2P+2C	L	V
01JEPR	Simple Compilers Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	2	L	V
18MAK1	Macroeconomics 1 Quang Van Tran Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	L	V
18MAK2	Macroeconomics 2 Quang Van Tran Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	Z	V
00MAM1	Essentials of High School Course 1	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
18MIK	Microeconomics Quang Van Tran Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2P+2C	Z	V
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	V
18PROP	Practical training in programming Jakub Klinkovský Jakub Klinkovský Jakub Klinkovský (Gar.)	KZ	3	2C	Z	V
01PERI	Programming of Peripherals Devices Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	V
18PMTL	Programming in MATLAB Quang Van Tran, Mat j Pokorný, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	z	V
18PPY1	Programming in Python 1 Jakub Klinkovský, Matej Mojzeš Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2C	L	V
18PPY2	Programming in Python 2 Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2S	Z	V
18PPY3	Programming in Python 3 Rudolf Pecinovský Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2C	L	V
18PW	Web environment and markup languages Pavel Eichler Dana Majerová Dana Majerová (Gar.)	KZ	2	2C	Z	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
01SOS1	Software Seminar 1 Zden k ulik Zden k ulik Zden k ulik (Gar.)	Z	2	0+2	Z	V
01SOS2	Software Seminar 2 Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
01ZPB1	Introduction to Computer Security 1 Petr Voká Petr Voká (Gar.)	Z	2	1+1		V

Characteristics of the courses of this group of Study Plan: Code=BSPAPINV Name=BS P_APIN Optional courses

04APSZK	English - State Examination	ZK	5		
The course content is the	e examination as given by the study plan. Student is eligible for the State language examination (level C1 or B2 of CEFR) or	nly if he/she has p	assed all the		
respective courses and examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also examination subjects. As required,					
examination conditions	comply with respective rules and regulations for state language examinations.				
01DEM	History of Mathematics	Z	1		
The subject has the form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - give their talks on varoius topics					
from the history of math	ematics.				

18EKN	Econometrics	Z,ZK	4
	d on economic theory and the relations between economic quantities are expressed by mathematical tools and observed dat	a from economic rea	lity. The course
	nts of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and	instruments for ecor	nometric mode
verification.			
01JEPR	Simple Compilers	Z	2
	alysis, code generation, simple optimizations, development environments, reflection.		
18MAK1	Macroeconomics 1	Z,ZK	4
-	ovides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroecon ibrium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basi		-
	cations for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic ph		
	use them under the conditions of modern economic life.		
18MAK2	Macroeconomics 2	Z,ZK	4
-	tends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary mac	· · · · · · · · · · · · · · · · · · ·	-
	becially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students		
modeling, i.e., macroe	conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provid	es students with mod	ern knowledg
of labor market mode	ling.		
00MAM1	Essentials of High School Course 1	Z	1
Students are introduc	ed to mathematical concepts and methods used in the introductory physics course.		
00MAM2	Essentials of High School Math Course 2	Z	1
	igh school mathematics.	- <u>,</u>	
18MIK	Microeconomics	Z,ZK	4
	set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. I	-	
-	these processes and makes more clear behaviour of the economic agents. Lectures and seminars are designed so that the exp	lanation of microecor	nomic concepts
does not require know			4
12NME1	Numerical Methods 1	Z,ZK	4 vn of tooko vori
-	ne basic principles of numerical mathematics important for numerical solving of problems important for physics and technolog ts (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated comp	-	
	ogramming language as a demonstration tool. The seminars are held in computer laboratory.		
18PROP	Practical training in programming	KZ	3
	e is to understand advanced topics related to programming, code design and software project development. Students will pra	1 1	-
-	e real-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers wor		-
of the final source co	de.	-	
01PERI	Programming of Peripherals Devices	Z	2
Memory organization	input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripher	als device drivers.	
18PMTL	Programming in MATLAB	KZ	4
Introducing Matlab er	vironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic a	inalysis, statistics, alg	gorithmization
and geometric repres			
18PPY1	Programming in Python 1	Z	2
	s students to advanced features of the Python language and common scientific packages. The course covers both object-oriente		
	ing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages	· · ·	
18PPY2	Programming in Python 2	Z	2
	s students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar	where each presente	ed topic is
	ort demo of a real-world application in the specific field.		
18PPY3	Programming in Python 3		2 a af tha Dutha
language and module	is intended for students who have basic experience with programming in Python and using its libraries. It introduces students	to advanced concept	s of the Pytho
18PW	Web environment and markup languages	KZ	2
-	s students to fundamental principles and best practices for web design with respect to technical functionality, informational va	1 1	
01PSL	LaTeX - Publication Instrument		2
	to the basics and facilities of computer typography, particularly to the system LaTeX		2
01SOS1	Software Seminar 1	Z	2
	sembly language programming for microprocessors Intel 80x86		2
01SOS2	Software Seminar 2	Z	2
	'K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Univ	1	
	rtability to Microsoft Windows.		,,
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
	Basic Electronics 1		-
12ZEL1		Z,ZK	3 de for linear
	primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. C plic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	-	
Shound monute symb	Basic Electronics 2	Z,ZK	3
107EL 0			3
12ZEL2 The subject follows u		1 1	
	b with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic Introduction to Computer Security 1	1 1	

Code of the group: BSPJAZYKYZAP Name of the group: BS P jazyky zap Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

Note on the gr	Name of the course / Name of the group of courses		1	r	<u>ј</u>	
Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04XAM1	English for Intermediate Students M1 Jana Ková ová	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2 Jana Ková ová	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3 Jana Ková ová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 Jana Ková ová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2 Jana Ková ová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 Jana Ková ová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESM3	Czech for Foreigners - Intermediate 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP1	Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP2	Czech for Foreigners - Advanced 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V

04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
Characteristics of the	courses of this group of Study Plan: Code=BSPJAZYKYZAP I	Name=BS P j	azyky za	р		
	glish for Intermediate Students M1				7	2
• · · · · · · - · ·	udents who have successfully completed the full secondary school English language	course at least at	the A2 level	of the Com		_
	(CEFR). It provides an introduction into English for Specific and Academic Purposes (
-	communication situations. Thus it covers topics related to the student's life and needs	s as well as topics	of subtechr	lical interest	. Attention is a	also paid to
extending the knowledge of g	grammar issues used in EAP.					
04XAM2 End	glish for Intermediate Students M2				Z	2
	student to have completed the AM1 course. It develops their skills for work with subte	chnical texts focu	using also m	ore on spec	ific grammar	functions
	P and EAP (e.g., definition, existence and classification of phenomena, object descript		-		-	
revision is included.			04.00.104.00	galaoa mil	ing in needed	ary, grannar
		-,				
		-,			7	2
	glish for Intermediate Students M3				Z	2
The course develops the skills	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte	ntion is paid to de			cabulary and	independent
The course develops the skills	glish for Intermediate Students M3	ntion is paid to de			cabulary and	independent
The course develops the skills understanding of professiona	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte	ntion is paid to de nal oral and writte	n communio	ation and th	ocabulary and neir appropriat	independent te Czech
The course develops the skills understanding of professiona	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte Il texts. Great emphasis is placed on distinguishing different levels of formal and inform	ntion is paid to de nal oral and writte	n communio	ation and th	ocabulary and neir appropriat	independent te Czech
The course develops the skills understanding of professiona equivalents. The course also student's field.	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte Il texts. Great emphasis is placed on distinguishing different levels of formal and inform	ntion is paid to de nal oral and writte	n communio	ation and th	ocabulary and neir appropriat	independent te Czech
The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte Il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa	ntion is paid to de nal oral and writte ring and giving a s	n communic short preser	cation and th	cabulary and heir appropriat chosen topic r	independent te Czech related to the 2
The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte I texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa glish for Advanced Students P1	ntion is paid to de nal oral and writte ring and giving a s course (at least th	n communic short preser	ation and th tation on a	bocabulary and heir appropriat chosen topic r Z	independent te Czech related to the 2 Framework
The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st of Reference for Languages	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa glish for Advanced Students P1 rudents who have successfully completed the full secondary school English language	ntion is paid to de nal oral and writte ring and giving a s course (at least th (ESP, EAP), i.e., i	n communic short preser ne B1 level c nto the fund	ation and th tation on a bf the Comm amentals of	bocabulary and neir appropriat chosen topic r Z non European vocabulary, fo	independent te Czech related to the 2 Framework unctions,
The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st of Reference for Languages grammar, and style typical of	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte Il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa glish for Advanced Students P1 udents who have successfully completed the full secondary school English language - CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mai	ntion is paid to de nal oral and writte ring and giving a s course (at least th (ESP, EAP), i.e., i thematics and phy	n communic short preser ne B1 level c nto the fund vsics, definit	ation and th tation on a of the Comm amentals of ions, graph	cabulary and neir appropriat chosen topic r Z non European vocabulary, fu descriptions, d	independent te Czech related to the 2 Framework unctions, etc). It also
The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st of Reference for Languages grammar, and style typical of covers professional oral and v	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte Il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa glish for Advanced Students P1 udents who have successfully completed the full secondary school English language - CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mat written communication on topics related to the undergraduate's life and needs. It develop	ntion is paid to de nal oral and writte ring and giving a s course (at least th (ESP, EAP), i.e., i thematics and phy	n communic short preser ne B1 level c nto the fund vsics, definit	ation and th tation on a of the Comm amentals of ions, graph	cabulary and neir appropriat chosen topic r Z non European vocabulary, fu descriptions, d	independent te Czech related to the 2 Framework unctions, etc). It also
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The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st of Reference for Languages grammar, and style typical of covers professional oral and w polite request). If necessary, 04XAP2 Eng The AP2 course is based on the students' needs it concer of descriptions, and, if possib	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa glish for Advanced Students P1 udents who have successfully completed the full secondary school English language - CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mar written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even intrates on chosen grammar topics, but mainly intends to develop understanding of syr	ntion is paid to den nal oral and writte ring and giving a s course (at least th (ESP, EAP), i.e., i thematics and phy os skills for free pro- with professional ntactic structures a t work with and re	n communic short preser ne B1 level of nto the fund ysics, definit ofessional w texts of cho and typical r ading of ling	ation and the tation on a station on a station on a station of the Comma mentals of sions, graph riting (writing sen branche hetorical fur juistically more statically more st	Z non European vocabulary, fu descriptions, of g a CV, letter of Z es of science. notions (e.g., vore demandin	independent te Czech related to the 2 Framework unctions, etc). It also if application, 2 According to various types g materials.
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The course develops the skills understanding of professional equivalents. The course also student's field. 04XAP1 Eng The course is designed for st of Reference for Languages grammar, and style typical of covers professional oral and w polite request). If necessary, 04XAP2 Eng The AP2 course is based on the students' needs it concer of descriptions, and, if possib The course extends the stude paragraph structure, linking,	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atte il texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa- glish for Advanced Students P1 udents who have successfully completed the full secondary school English language - CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mai written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even trates on chosen grammar topics, but mainly intends to develop understanding of syr le, a case study). Increasing emphasis is placed on the undergraduate's independent ent's subtechnical vocabulary, and includes fundamental notions of chosen branches of cohesion and coherence in texts.	ntion is paid to den nal oral and writte ring and giving a s course (at least th (ESP, EAP), i.e., i thematics and phy os skills for free pro- with professional ntactic structures a t work with and re	n communic short preser ne B1 level of nto the fund ysics, definit ofessional w texts of cho and typical r ading of ling	ation and the tation on a station on a station on a station of the Comma mentals of sions, graph riting (writing sen branche hetorical fur juistically more statically more st	Z non European vocabulary, fu descriptions, of g a CV, letter of Z es of science. notions (e.g., vore demandin	independent te Czech related to the 2 Framework unctions, etc). It also if application, 2 According to various types g materials.
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04V0E074 Creat for Excision on Designers 4	7	
04XCESZ1 Czech for Foreigners - Beginners 1	Z	2
The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic a	-	
acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	ation in the most co	ommon everyday
situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	<u> </u>	
04XCESZ2 Czech for Foreigners - Beginners 2	Z	2
The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and	I conjugation syste	m and practise
basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.		
04XCESZ3 Czech for Foreigners - Beginners 3	7	2
The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses	on building up bas	_
fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to prov		
frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers rou	-	
1	.g,	
04XCESM1 Czech for Foreigners - Intermediate 1	Z	2
	I – I	
The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending to the second seco	the student's vocab	bulary for various
social situations.		
04XCESM2 Czech for Foreigners - Intermediate 2	Z	2
The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and re	ading skills and tra	ains the student
in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3 Czech for Foreigners - Intermediate 3	Z	2
The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espe	cially focused on s	stylistics and
lexicology and on developing the student's writing skills.	,	
04XCESP1 Czech for Foreign Students - Advanced 1	Z	2
	1 1	
The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common B	-	
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of		-
basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies an	d Student Life. Writ	tten practice
includes communication with teachers and faculty administrators.		
04XCESP2 Czech for Foreigners - Advanced 2	Z	2
This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical	and specialist texts	s placing greater
emphasis on individual work.	·	
	Z	2
	1 – 1	
The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentat	ion, and, imaliy, pre	esentation of the
student's project. Writing skills necessary for professional communication are trained.		
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in b	oth written and ora	I form. Students
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to	transmit general ar	nd technical
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, s	systemizes and exp	bands language
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, p		
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wor		
04XFM2 French for Intermediate Students M2	Z	2
	I – I	
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science		
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sc	lence and technologic	ogy, ⊢rencn
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	<u> </u>	
04XFM3 French for Intermediate Students M3	Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures	(subordinate and i	nfinitive clauses,
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-	class. The paper is	linked to the
field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative	work compiled fron	n French articles
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and	coherence.	
04XFP1 French for Advanced Students P1	Z	2
	1 1	
FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both v		
be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit get		
to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are		-
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transaction	-	
request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. To	pics of specialization	on: mathematics,
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2 French for Advanced Students P2	Z	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication	on given topics. Fe	atures typical of
technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3 French for Advanded Students P3	Z	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	1 – 1	
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally contained to a standard text and the standard text and the standard text and the standard text and text a	vers a technical /a	ipplieu science
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFZ1 French for Beginners Z1	Z	2
French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in	socializing and in	professional life.
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be ab	le to communicate	at elementary
level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd	dová, French for be	ginners
(Francouzština pro za ate ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introduction		°
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia		
04XFZ2 French for Beginners Z2		2
	1 – 1	
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		
French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreent the structure to the structure of the	-	
thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication of the study. Name of Linkstein and Equility	nunication. Specific	topics covered:
How does the machine work? A few expressions concerning the study. Name of University and Faculty.		

		η
04XFZ3 French for Beginners Z3	Z	2
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda -	Pravdová: French	for Beginners.
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for	information and lou	ud as part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4 French for Beginners Z4	Z	2
The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The	contents is roughly	y covered with
lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the I		-
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sh		
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.	11 0,	,
04XFZ5 French for Beginners Z5	Z	2
All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The	-	-
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials		
notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate		
subjunctive clauses, gerund, passive.	ciauses, typical col	ijuncions,
	7	
04XNM2 German for Intermediate Students M2	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation is a structure of the stru		
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers are		
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course syste	ematically revises o	ther grammatical
phenomena important for professional discourse (participles, relative clauses).	1	7
04XNM1 German for Intermediate Students M1	Z	2
The objective of the course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena a	nd structures (e.g.	the passive) and
word formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Rep	ublic and Germany	, current
environmental issues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physic	sts, and the fundar	mentals of IT
terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.		
04XNM3 German for Intermediate Students M3	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relati	on between techno	logy and society,
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers ar	nd car technology e	etc. Students
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course syste		
phenomena important for professional discourse (participles, relative clauses).	,	0
04XNP1 German for Advanced Students P1	Z	2
This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be	1	
course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for		
more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses o	-	
i.e., telephoning.		, communication,
	7	2
04XNP2 German for Advanced Students P2		
The source develope the students' skills is working with professional existific toxis (understanding, summarising, note taking, interpreting) while sute	-	and authtophysical
The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while external data and the standard and the stand	nding their general	
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding a	nding their general and practising formal	
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding a both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech)	nding their general and practising formal	l communication,
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding at both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech)04XNP3German for Advanced Students P3	nding their general and practising formal	l communication,
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding at both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech)04XNP3German for Advanced Students P3The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a	nding their general and practising formal 	l communication,
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vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech) 04XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are us students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form.	nding their general inding their general inding their general indination of the practising formal indicates and the practice of the second sec	l communication, 2 mon situations in fields such as presentation,
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech) 04XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are us students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. practice to and from German.	Ading their general and practising formal Z Variety of less com vocabulary range i ed. By means of a The course also inc	l communication, 2 mon situations in fields such as presentation,
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04XRZ2	Russian for Beginners Z2	Z	2
	f the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short si		
	ing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will ical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.	also develop their	vocabulary and
04XRZ3	Russian for Beginners Z3	Z	2
The course is based on	RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	ning various forms	of reading skills
and listening) and introd	luces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will b	e able to respond	so as to be
understood, and to exp	ess their opinion. Writing skills will be trained on guided writing tasks and note-taking.		
04XRZ4	Russian for Beginners Z4	Z	2
The course is based on	RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with	a certain percent	age of unfamiliar
	ion in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver		•
-	nperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),	-	
	e specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.	.g., Siberia), learn	how to fill in
	nation from the timetable, learn about Russian holidays and typical meals.		-
04XRZ5	Russian for Beginners Z5	Z	2
	student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understa	.	•
	ialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C		
	ing grammar is based on professional and technical texts and only includes items typically used in professional communication		es, participles,
, ,	s develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite reque	· · · · ·	
04XSM1	Spanish for Intermediate Students M1	Z	2
•	for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-seme		
	ention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega		-
	and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts o		
04XSM2	Spanish for Intermediate Students M3	<u>Z</u>	2
	e students knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for	specific purposes	in order to be
	lized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
	upplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acad		-
enough to use the Inter	net in Spanish and search for information of their specialization or field of interest. Students will use the information to write s		ummaries The
final part of the presson			Sammanes. The
	me, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
04XSP1	me, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. Spanish for Advanced Students P1	Z	2
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List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology	Z	1
	The course introduces the basics of micro- and macroeconomics.	-	
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
'	Students are introduced to mathematical concepts and methods used in the introductory physics course.	•	

0014142	Essentials of High School Math Course 2	7	1
00MAM2	Essentials of High School Math Course 2 Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
	used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of pu	blic speech
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	integral part of th	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01BASE	Bachelor Seminar	Z	1
projects at the fac	ne seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ ulty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral prese s achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possib performance.	ntations of the cur	rent state of
01BPAI1 B	Bachelor's Degree Project 1 achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	Z r preparation.	5
01BPAI2 B	Bachelor's Degree Project 2 achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	Z r preparation.	10
01DEM	History of Mathematics	Z	1
The subject has the	e form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - g from the history of mathematics.		aroius topics
01DIM1	Discrete Mathematics 1 The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	Z	2
01DIM2	Discrete Mathematics 2	Z	2
01EIG	The seminar is devoted to recurrence relations. It includes individual problem solving. Elementary Introduction to Graph Theory	ZK	3
UIEIG	The course provides an explanation of basics of graph theory, followed by a survey of common graph algorithms.		3
01JEPR	Simple Compilers	Z	2
	Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.		
01MAT1 The course is deve	Mathematics 1 oted to the study of the basics of calculus of one variable. It includes an introduction to differential and integral calculus, with particula	Z Ar emphasis on ap	4 plications in
	practical problems.		1
01MAT2	Mathematics 2	Z	4
The course, whic	ch is the continuation of Mathematics 1, is devoted to the integration techniques, improper Riemann integral, introduction to parametr		Illy in polar
	coordinates), the basics of sequences and infinite series, and finally to the Taylor and power series and their applications		
01MAT3	Mathematics 3	Z,ZK	4
01MAT4	The subject summarises the most important notions and theorems related to the study of finite-dimensional vector spaces Mathematics 4	z,ZK	4
	n-linear differential equations of the first order. Linear differential equations of higher order with constant coefficients. Multivariable ca		1 -
01MATZ1	Mathematics, Examination 1	ZK	2
01MATZ2	Mathematics, Examination 1 Mathematics, Examination 2	ZK	2
01PERI	Programming of Peripherals Devices	Z	2
	rganization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of perip	1	1
01PGR1	Computer Graphics 1	Z,ZK	2
	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of		
a survey of fundam	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and e knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com the process of authoring scientific documents and presentations. Computer Graphics 2	xplanation of the c	orresponding
graphics. Further, rendering. Focus is	of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenon a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic using Blender, an open-source 3D modeling and rendering software instrument.	n of a 3D scene to n a variety of subje	its realistic ects available
01PSL	LaTeX - Publication Instrument The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	Z	2
01PW Simple	Windows Programming graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identifica	Z tion and reflection	2
01SITE1	Computer Networks 1	Z	2
Understanding the	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro ations. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth	tocols, practical e	xercises with
	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the s		
01SITE2	Computer Networks 2		2
-	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro ations. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth	-	
	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the si		
01SOS1	Software Seminar 1	Z	2
010000	Java, Java Beans, Assembly language programming for microprocessors Intel 80x86	7	0
01SOS2 Graphical libraries	Software Seminar 2 GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like	Z operating system	2 s, especially
	for Linux systems. Portability to Microsoft Windows.		

01UOP	Introduction to Object Programming Object oriented programming languages. Object oriented programming libraries for graphics, databases and distributed syste	ZK	2
01UP1	Introduction to Probability 1	Z,ZK	3
1.Random trial v	with finite set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and ge	eometry, Bertrand	s paradox
Conditional proba	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean v	value 6.Problems	involving th
	calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants		
01UP2	Introduction to Probability 2	Z,ZK	3
. One-dimensiona	al continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of	probability and c	onnection f
neasure theory. 4.	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6. estimations. 7. Generating pseudorandom numbers from the selected distribution.	Elementary meth	ods for poi
01UTEI	Introduction to Theoretical Informatics	ZK	3
01ZAOS	Introduction to Operating Systems	Z,ZK	2
Introduc	tion to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Mer		1
01ZPB1	Introduction to Computer Security 1	Z	2
0121 B1	History of Physics 1	7	2
	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	_	
	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F as experimental science. Newton and his work.		-
02FY1		7 71/	4
	Physics 1 s and applications of mechanics, waves and thermodynamics ? basic level. The lecture is supplemented with practical investigation ar	Z,ZK	4
r natory, principles			
0051/0	physical phenomena.	7 71/	-
02FY2	Physics 2	Z,ZK	4
	nics, electricity and magnetism, modern physics. The lecture is supplemented with practical investigation and demonstration of select		1
04AP3KK	Course in Communication Skills - Final Examination	ZK	2
	t is the examination as given by the study plan. Final examination 04AP3KK covers syllabi of all three courses in communication skills	-	
est may be admini	stered. Examination requirements are similar to those of state examination. Student will be able to engage in communication and disc	cussion on a giver	n topic, usir
	appropriate vocabulary and grammar structures.		1
04APA	Course in Applied English Usage	Z	1
o sign in for the co	purse, student will have passed final examination in Course in Language Structures (04APSK). The course concludes study of gramma	ar structures and	applies the
o understanding e	everyday and ESP language situations, laying stress on choice of exact and adequate language and grammar structures in both Engli	ish-Czech and Cz	ech-Englis
	translations		
04APAK	Course in Applied English Usage - Examination	ZK	2
he course conten	t is the examination as given by the study plan. Written and oral parts of the examination test skills and knowledge acquired in course		
	the the examination as given by the eady plan. Written and eral parts of the examination test static and the models	e 04APA. Duration	: written pa
	- 100 minutes, oral part - ca 30 minutes.	e 04APA. Duration	: written pa
04API		04APA. Duration	2 whiteh pa
04API	- 100 minutes, oral part - ca 30 minutes.	Z	2
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04API The course will pre	- 100 minutes, oral part - ca 30 minutes. Presentation Course pare students for presenting issues in their field by mastering the strategies and techniques of oral presentation. The course includes of ent, disagreement). Students will be able to respond to comments on their presentation and answer questions addressed to them after the strategies are the strategies and techniques of oral presentation.	Z discussions (expre er the presentatio	2 essing view
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04APR2	Life and Institutions of English-speaking Countries and the CR 2	Z	2
	ig the 04APR1 course is again aimed at preparing the student for the state language examination and is based on topics required for this		
is placed on trainin	g oral presentation of facts about English speaking-countries in comparison with the Czech Republic. The course covers two remaini language examination.	ng thirds of topics f	or the state
04APRK	Life and Institutions of English-speaking Countries and the CR - Examination	ZK	3
The course conter	t is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 0	4APR1 and 04APF	R2.courses
The examination	consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the know both courses.	wledge and skills a	cquired in
04APS1	Course in Language Structures 1	KZ	3
	igned to instruct how to correctly use and to revise English grammar structures acquired by student at secondary school, develop the		-
	and strengthen them. The required level for registration is B1 of CEFR. The course stresses mainly frequency of structures and those		-
	students.		-
04APS2	Course in Language Structures 2	KZ	3
The cours	e 04APS2 is a sequel to course 04APS1. Its purpose is also to correctly use and revise further English grammar structures as acquir	ed and develop the	m.
04APS3	Course in Language Structures 3	Z	1
The course 04APS	3 is a sequel to course 04APS2. Its purpose is also to correctly use and revise further English grammar structures as acquired by stu	dent, to develop the	em and use
	in practice.		
04APSK	Course in Language Structures - Final Examination	ZK	2
	ent is the examination as given by the study plan. To register for final examination 04APSK student will have passed a 3-semester pro	• • •	
04APS1, 04APS2	t, and 04APS3. It consists of two parts: written (duration 100 minutes) and oral (duration about 30 minutes). Student will demonstrate	he/she has mastere	ed English
044 00714	grammar and can reliably use it in practice as well as explain why a rule applies.	71/	
04APSZK	English - State Examination	ZK	5
	ent is the examination as given by the study plan. Student is eligible for the State language examination (level C1 or B2 of CEFR) only s and examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also exan		
respective courses	examination conditions comply with respective rules and regulations for state language examinations.	ination subjects. A	s required,
04APU1	Introduction to English for Specific Purposes 1	Z	2
	ntroduction to English for Specific Purposes (ESP) and acquaint him/her with its functions in subtechnical or easy technical te	- 1	
	functions typical of ESP and it introduces student to basic mathematics and information technology terms.	kis. It brings vocabl	and y and
04APU2	Introduction to English for Specific Purposes 2	7	2
	J2 is a sequel to course 04APU, concentrating more thoroughly on ESP text content, text grammar and vocabulary. It introduces more	— 1	
	ESP and more advanced information technology terms.		- 71
04APUK	Introduction to English for Specific Purposes - Examination	ZK	1
	ent is the examination as given by the study plan. Examination 04APUK consists of two parts - written part (duration 100 minutes) and	ا I oral part (duration	about 30
minutes) and cover	rs a 2-semester programme. To be eligible for examination, student will have passed courses 04APU1 and 04APU2 and the examination	on test in written pa	art. Student
	has to prove he/she can use the acquired basic knowledge and skills typical of English for Specific Purposes (ESP).		
04JPBP	Language Support to Bachelor Project	Z	3
-	ourse students will have passed all the English courses from the previous 5 semesters. The course instructs students in the strategy of		
	Bachelor Project in English. Their progress is continuously monitored and assessed. To finish the course, students will give a present	_	
04XAM1	English for Intermediate Students M1	Z	2
	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C		
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical int		
	extending the knowledge of grammar issues used in EAP.	erest. Alternion is a	150 paid to
04XAM2	English for Intermediate Students M2	Z	2
	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on	1	
	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided		
-	revision is included.		
04XAM3	English for Intermediate Students M3	Z	2
The course develop	bs the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	al vocabulary and ir	ndependent
-	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The co	burse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation o	n a chosen topic re	lated to the
	student's field.		
04XAP1	English for Advanced Students P1	Z	2
	igned for students who have successfully completed the full secondary school English language course (at least the B1 level of the C	-	
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamen le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g		
	l oral and written communication on topics related to the undergraduate 's life and needs. It develops skills for free professional writing (w		-
	polite request). If necessary, revision of selected grammar topics is included.	3 . . , .	
04XAP2	English for Advanced Students P2	Z	2
	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brai	1	
the students' need	s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica	l functions (e.g., va	rious types
	d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical		
The course extend	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal write	ng including the se	ntence and
_ ··· · · =	paragraph structure, linking, cohesion and coherence in texts.		
04XAP3			-
	English for Advanced Students P3	Z	2
The AP3 course is	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	cludes training oral	and written
The AP3 course is communication sk	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	cludes training oral an abstract) and, i	and written if possible,
The AP3 course is communication sk	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang	cludes training oral an abstract) and, i	and written if possible,
The AP3 course is communication sk also preparing a	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang communication.	cludes training oral an abstract) and, i uage both in oral ar	and written if possible, nd written
The AP3 course is communication sk also preparing a 04XCESM1	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang	cludes training oral an abstract) and, i uage both in oral ar Z	and written if possible, nd written 2

04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	by the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading	ng skills and trains	the student
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
The last course r	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	ally focused on styl	listics and
	lexicology and on developing the student's writing skills.	71/	4
04XCESMZK	Czech for Intermediate Students Examination t is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	ZK	4
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	ivi 1,2,3 courses ar	iu can only
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ	_	1
It is focused partly	on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sci	ence. Students are	taught the
basics of function	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S	Student Life. Writte	n practice
	includes communication with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and emphasis on individual work.	specialist texts pla	cing greater
04XCESP3	Czech for Foreigners - Advanced 3	7	2
	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	—	-
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	P1,2,3 courses an	nd can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g		-
acquire basic langu	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	in the most commo	on everyday
04XCESZ2	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	7	2
	Czech for Foreigners - Beginners 2 I communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and cor	—	1
The language and	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	jugation system a	
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
	er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	building up basic v	ocabulary,
fixing correct pronu	inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce	simple texts and the	hey practise
frequent types of d	ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	lessons 5-7 in e	ština expres
	1.		
04XFM1	French for Intermediate Students M1	Z	2 Studente
French - intermedia	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v	vritten and oral for	m. Students
French - intermedia will be able to co	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra	vritten and oral for nsmit general and	m. Students technical
French - intermedia will be able to co information and to	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v	vritten and oral for nsmit general and emizes and expand	m. Students technical Is language
French - intermedia will be able to co information and to skills gained in prev	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra- solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	vritten and oral for nsmit general and emizes and expand nal statement, requ	m. Students technical Is language iest, answer
French - intermedia will be able to co information and to skills gained in prev to an advert, 04XFM2	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, we French for Intermediate Students M2	vritten and oral for nsmit general and emizes and expand nal statement, requ rk based on these Z	m. Students technical Is language test, answer texts.
French - intermedia will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo French for Intermediate Students M2 on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science texts	vritten and oral for nsmit general and emizes and expand nal statement, requ rk based on these Z s, features typical	m. Students technical ds language uest, answer texts. 2 for technical
French - intermedia will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trassolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systervious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, working on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scienting and previous study are systemized and expanded.	vritten and oral for nsmit general and emizes and expand nal statement, requ rk based on these Z s, features typical	m. Students technical ds language uest, answer texts. 2 for technical
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French - intermedia will be able to cc information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds and scientific lar 04XFM3	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trassolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systervious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work for Intermediate Students M2 on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sciencists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3	vritten and oral for nsmit general and mizes and expand nal statement, requ rk based on these Z s, features typical nce and technolog Z	m. Students technical is language uest, answer texts. 2 for technical y, French 2
French - intermedia will be able to co information and to skills gained in prev to an advert, 04XFM2 Course FM2 builds and scientific lar 04XFM3 The course is focus	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trassolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systervious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, working on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text neguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sciencitists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3 seed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subtree)	vritten and oral for nsmit general and mizes and expand hal statement, requ rk based on these Z s, features typical nce and technolog Z ordinate and infinit	m. Students technical is language uest, answer texts. 2 for technical y, French 2 ive clauses,
French - intermedia will be able to co information and to skills gained in prev to an advert, 04XFM2 Course FM2 builds and scientific lar 04XFM3 The course is focus participle structure	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trassolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systervious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work for Intermediate Students M2 on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sciencists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3	vritten and oral for nsmit general and mizes and expand hal statement, requ rk based on these Z s, features typical nce and technolog Z ordinate and infinit ss. The paper is lin	m. Students technical is language uest, answer texts. 2 for technical y, French 2 ive clauses, iked to the
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French - intermedia will be able to co- information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds and scientific lar 04XFM3 The course is focus participle structur field of students' fu and one 04XFMZK The content is the 04XFP1 FP advanced cour be able to commur to solve problems. passé composé-inr request, answer to 04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o 04XFPZK	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to the solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography. Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, we freench for Intermediate Students M2 on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text squage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3 sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-claa: true specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work or sonsists of a written and oral part and is organized according to Examination. e's own knowledge/experience -Longer monologues on topics /situations set for the examination covering the contents or consists of a written and oral part and is organized according to Examination in the French l	vritten and oral form nsmit general and mizes and expand- nal statement, requ- rk based on these Z is, features typical nce and technolog Z ordinate and infinit ss. The paper is lin compiled from Free on and coherence. ZK f FM1-FM3. The ex- b. Z and technical info ated and expanded titers, CV, personal of specialization: m n. Z iven topics. Feature gineering environm s a technical /appli ZK and is organized ad	m. Students technical ds language uest, answer texts. 2 for technical y, French 2 ive clauses, iked to the ench articles 4 kamination 2 tudents will rmation and d: subjonctif, I statement, nathematics, 2 es typical of 2 ent. Special ied science 4

04XFZ1	French for Beginners Z1	Z	2
French for beginne	rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soci	alizing and in profe	ssional life.
	es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		- I
· ·	za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions, pe		
	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gramm	
04XFZ2	French for Beginners Z2		2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the		
•	iners. Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
thanking, travelling	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communion How does the machine work? A few expressions concerning the study. Name of University and Faculty.	Jation. Specific topi	cs covered.
04XFZ3	French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra	I – I	
	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info		-
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.	simation and load t	
04XFZ4	French for Beginners Z4	Z	2
-	i up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor	I – I	_
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture	• •	
	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp		
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet	-	.,
04XFZ5	French for Beginners Z5	Z	2
	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr	I – I	
	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To		
-	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla		
,	subjunctive clauses, gerund, passive.		
04XFZZK	French for Beginners Examination	ZK	3
	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examin		-
	Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNM1	German for Intermediate Students M1	Z	2
	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st	I – I	
	processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu		,
	sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	•	
	terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders		
04XNM2	German for Intermediate Students M2	Z	2
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	I – I	
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati	cally revises other g	rammatical
	phenomena important for professional discourse (participles, relative clauses).		
04XNM3	German for Intermediate Students M3	Z	2
The course introdu	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	tween technology	and society,
the world at the l	peginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and d	car technology etc.	Students
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati	cally revises other g	rammatical
	phenomena important for professional discourse (participles, relative clauses).		
04XNMZK	German for Intermediate Students Examination	ZK	4
The course conten	t is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of	consisting of two pa	rts - written
and oral, which co	ver the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessme	ent. More detailed i	nformation
	is to be obtained from the teacher.	. <u> </u>	
04XNP1	German for Advanced Students P1	Z	2
This course requir	es good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level	led off at the begin	ning of the
course. The cours	se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d	etail). It revises and	l develops
more difficult gramn	nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra-	ctical everyday com	munication,
	i.e., telephoning.		
04XNP2	German for Advanced Students P2	Z	2
	ss the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending	e e	
	t introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra	-	munication,
	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi	rect speech).	
04XNP3	German for Advanced Students P3	Z	2
	sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie	-	
	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca		
	gineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
students are traine	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c	ourse also includes	ransiation
	practice to and from German.	71/	
04XNPZK	German for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination of	•	
and oral, which d	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded	assessment. More	e detailed
0.01/51/1	information is to be obtained from the teacher.		
04XRM1	Russian for Intermediate Students M1	Z	2
	gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (
-	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		
they can use bas	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement l contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab		
	server and soupe of the searce concepting approximately to the rise obtride, but for hall of the unoticed in the unoticed		

04XRM2	Russian for Intermediate Students M2	Z	2
	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	e timetable.	
04XRM3	Russian for Intermediate Students M3	Z	2
The course develo	ps the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe in the timetable.	ver, for half of the t	ime allotted
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	It is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	ructions by the tead	
04XRP1	Russian for Advanced Students P1 uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prac	ticing more difficul	2 drammar
	structures, understanding the fundamentals of technical language and training writing skills.	tiong more dimedia	grammar
04XRP2	Russian for Advanced Students P2	Z	2
The course is bas	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	rb aspects, specifi	c syntactic
	structures). Stress is put on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing of provide structures). The		
	od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and wi		-
	chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accu technical topics.	-	
04XRPZK	Russian for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	I I	-
	lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr		
04XRZ1	Russian for Beginners Z1	Z	2
The course repres	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	. Thus it begins wit	h mastering
the Russian alpha	bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking)). Students will be a	able to read
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2		2
	ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also		
	master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in		abalary and
04XRZ3	Russian for Beginners Z3	Z	2
	d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training		-
and listening) ar	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.	able to respond so	o as to be
04XRZ4	Russian for Beginners Z4	Z	2
-	d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a c	ertain percentage (_
words, oral comn	nunication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs	, differences in ver	b patterns
	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a	-	
communication o	on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g. forms, look up the information from the timetable, learn about Russian holidays and typical meals.	, Siberia), learn ho	ow to fill in
04XRZ5	Russian for Beginners Z5	Z	2
	s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandin		
	specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Comm		
everyday topics. S	Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives,	participles,
	ve voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po		
04XRZZK	Russian for Beginners Examination	ZK	3
	nt is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowlec lents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr	•	
04XSM1	Spanish for Intermediate Students M1	Z	2
	signed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest	I I	
	ays attention to further grammar topics (e.g., perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negativ		
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tex	ts or listening to th	em.
04XSM2	Spanish for Intermediate Students M3	Z	2
The course develo	ops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	ecific purposes in o	order to be
0420142	able to work with specialized texts on the Internet.	7	
04XSM3	Spanish for Intermediate Students M3 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi	Z Z	2
	Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write shor		
	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex-		
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
	is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written parts - written and oral; to be eligible for the written a	art, students will ha	ve obtained
	non-graded assessment for course SM3.Oral examination follows the written part.		
04XSP1	Spanish for Advanced Students P1	Z	2
Course concentrat	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. of CEFR.	Course prerequisit	es: level B2
04XSP2	Spanish for Advanced Students P2	Z	2
	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta:	I I	
	written communication.		-

04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	ised on written com	nmunication
	based on what students will need in their career.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a	admission to oral pa	art is having
	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	e student.	
04XSZ1	Spanish for Beginners Z1	Z	2
Course SZ1 is the	first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	al grammar structu	ires and will
be able to	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	ish and will develop	o it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course SZ2 is base	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis	will be chosen so a	as to enable
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other	s such as the Czec	h Republic.
	Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
The course is base	ed on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	e Spanish-speaking	g countries,
mainly of Spain.	It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative)). It includes writter	n and oral
	communication on a given general topic, for which the student is trained by reading texts or listening to them.		
04XSZ4	Spanish for Beginners Z4	Z	2
	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish		-
Spain. It pays atte	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	imperative, and su	ıbjunctive),
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenin	ng to them.	
04XSZ5	Spanish for Beginners Z5	Z	2
The course books	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo		s. In its final
	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina	tion.	
04XSZZK	Spanish for Beginners Examination	ZK	3
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if h	e/she has
	passed the written examination test.		
12NME1	Numerical Methods 1	Z,ZK	4
There are explaine	d the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me	thods for solution o	f tasks very
important for phys	icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat	ional environment	MATLAB is
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12PAS	Computer Algebra Systems	Z	2
Practically oriente	d introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is real	ized in computer c	lassrooms:
	students acquire basic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
12UNXAP	Introduction to UNIX	Z	2
Computer and o	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfac	ce. Hardware and	software.
Principles of opera	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi	th files. Text editors	: vi, emacs.
Command interp	reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to	ools. Graphical use	r interface
X-windows. Cor	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	omputer. Network s	services:
	hardware sharing, mail, scp, etc. Network applications	· · · · · · · · · · · · · · · · · · ·	
12UVP	Introduction to Scientific Computing	Z	2
Practically oriente	ed Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s	ome basic tools for	t scientific
	and technicval computing, data analysis, data visualisation and algorithm development.		
12ZEL1	Basic Electronics 1	Z,ZK	3
	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	-	
	e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff		
12ZEL2			
	Basic Electronics 2	ects inside linear c Z,ZK	ircuits. 3
The subject follo	Basic Electronics 2 ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	Z,ZK	3
The subject follor 18EKN		Z,ZK	3
18EKN Econometrics is ba	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th Econometrics ased on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data from	Z,ZK emes of logical circ Z,ZK n economic reality.	3 cuits field. 4 The course
18EKN Econometrics is ba	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th Econometrics used on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data fror ments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr	Z,ZK emes of logical circ Z,ZK n economic reality.	3 cuits field. 4 The course
18EKN Econometrics is ba covers basic instru	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th Econometrics Ised on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data fror ments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr verification.	Z,ZK emes of logical circ Z,ZK n economic reality. uments for econom	3 cuits field. 4 The course
18EKN Econometrics is ba	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th Econometrics used on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data fror ments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr	Z,ZK emes of logical circ Z,ZK n economic reality.	3 cuits field. 4 The course
18EKN Econometrics is ba covers basic instru 18INTA The lectures provid	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th Econometrics ased on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data from ments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr verification. Development of internet applications de an overview of modern technologies for the development of web applications. Students will learn basic web languages and concep	Z,ZK emes of logical circ Z,ZK n economic reality. uments for econom KZ ts (HTML, URL, et	3 cuits field. 4 The course hetric model 4 c.) and they
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18PJ	Programming in Java	Z,ZK	5
	This course is devoted to the Java platform and to the development of the basic types of applications for this platform.		
18PMTL	Programming in MATLAB	KZ	4
Introducing Matla	o environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys	is, statistics, algo	orithmization
	and geometric representation of results.		
18PPY1	Programming in Python 1	Z	2
	ices students to advanced features of the Python language and common scientific packages. The course covers both object-oriented as v		
	owing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages), data	a processing and	visualization
18PPY2	Programming in Python 2	Z	2
This course intr	oduces students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar wh	ere each present	ted topic is
	accompanied by a short demo of a real-world application in the specific field.		
18PPY3	Programming in Python 3	Z	2
This advanced cou	irse is intended for students who have basic experience with programming in Python and using its libraries. It introduces students to adv	anced concepts	of the Pytho
	language and modules they are based on.		_
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.		
18PRC2	Programming in C++ 2	KZ	4
This c	course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library	
		,	
18PROP	Practical training in programming	KZ	3
The goal of this	course is to understand advanced topics related to programming, code design and software project development. Students will practic	KZ e pragmatic tech	3 niques and
The goal of this		KZ e pragmatic tech	3 niques and
The goal of this	course is to understand advanced topics related to programming, code design and software project development. Students will practic rete real-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers work effic	KZ e pragmatic tech	3 niques and
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