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		T				
Code	Name of the course / Name of the group of courses (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 (Gar.)	Z,ZK	4	2P+2C	Z	Р
02FY2	Physics 2 Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z,ZK	4	2P+2C	L	Р
01MATZ1	Mathematics, Examination 1 Radek Fu ik Radek Fu ik Radek Fu ik (Gar.)	ZK	2	-	Z	Р
01MATZ2	Mathematics, Examination 2 Radek Fu ik, Mat j Tušek Mat j Tušek Radek Fu ik (Gar.)	ZK	2	-	L	Р
01MAT1	Mathematics 1 Radek Fu ik Radek Fu ik (Gar.)	Z	4	3P+3C	Z	Р
01MAT2	Mathematics 2 Radek Fu ik Radek Fu ik (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	28	Z	Р
04APK2	Course in Communication Skills 2 Jana Ková ová	Z	2	28	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	28	L	Р
04APUK	Introduction to English for Specific Purposes - Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	1		L	Р
04APU1	Introduction to English for Specific Purposes 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	28	Z	Р
04APU2	Introduction to English for Specific Purposes 2 Jana Ková ová	Z	2	28	L	Р
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	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 o	f the courses of this group of Study Plan: Code=BSPAPIN1 Name=E	BS P_APIN '	1st year			
02DEF1	History of Physics 1				Z	2
-	n the system of sciences. The relationship of man and nature. Natural sciences in ancient Ori	entand Greece	Greek natur	l ral nhilosoph		_
	nimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B					-
	·	runo. Copernici	is, kepier, G	allieo, nuygi	ens. The bi	rtn or physics
	ce. Newton and his work.					
02FY1	Physics 1			Z	,ZK	4
History, principles and	applications of mechanics, waves and thermodynamics? basic level. The lecture is supplementations of mechanics, waves and thermodynamics?	ented with pract	ical investiga	ation and de	monstratio	n of selected
physical phenomena.						
02FY2	Physics 2			1 -	,ZK	4
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	ctricity and magnetism, modern physics. The lecture is supplemented with practical investigati	on and demons	tration of sei		T T	
01MATZ1	Mathematics, Examination 1				ZK	2
01MATZ2	Mathematics, Examination 2				ZK	2
01MAT1	Mathematics 1				Z	4
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	to the study of the basics of calculus of one variable. It includes an introduction to differential	and integral cal	iculus, with p	articular em	phasis on	applications in
practical problems.						
01MAT2	Mathematics 2				Ζ	4
	ne continuation of Mathematics 1, is devoted to the integration techniques, improper Riemann	integral, introd	uction to par	ametric curv		ally in polar
	es of sequences and infinite series, and finally to the Taylor and power series and their applica	•	action to pai		oo (oopoo.	any m. pola.
		ations.				
00PT	Preparatory Week				Z	2
04APKK	Course in Communication Skills - Examination				ZK	1
	the examination as given by the study plan. The examination tests how well student has mast	ered vocabulary	and facts o	f courses 04	APK1 and	04APK2 The
	of two parts - written (duration 100 minutes), and oral (about 30 minutes).	.0.04 100424.4.	, and lable 6		,	0 17 11 1121 1110
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04APK1	Course in Communication Skills 1				Z	2
The course will develo	p communication strategy and skills of student acquired at secondary school or elsewhere. C	ompetence at B	1 level of CE	EFR is a pre	requisite fo	r registering for
	5					
the course. It runs for 3	3 semesters, being a core course of the Applied Information Technology programme. It will de	velop student's	communicat	tion skills in	an integral	form (e.g.,
		•			•	
listening and discussion	on on a topic). The list of topics is similar to that of the State Language Examination. Student v	will develop their	r vocabulary		•	
listening and discussion and will master their co	on on a topic). The list of topics is similar to that of the State Language Examination. Student volument and topics is similar to that of the State Language Examination. Student volument is sufficient to the state of the stat	will develop their	r vocabulary		communica	ation situations
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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

Code of the group: BSPAPIN2

18ZALG

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.

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
04APA	Course in Applied English Usage	Z	1	2S	L	Р
04APAK	Course in Applied English Usage - Examination Nathaniel Patton	ZK	2		L	Р
01DIM1	Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	Z	Р
01DIM2	Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.)	Z	2	2P+0C	L	Р
04APR1	Life and Institutions of English-speaking Countries and the CR 1 Jana Ková ová	Z	2	28	L	Р
01MAT3	Mathematics 3 Miroslav Kolá, David Krej i ík, Severin Pošta David Krej i ík David Krej i ík (Gar.)	Z,ZK	4	2+2	Z	Р
01MAT4	Mathematics 4 Mat j Tušek Mat j Tušek Mat j Tušek (Gar.)	Z,ZK	4	2+2	L	Р
12PAS	Computer Algebra Systems Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	Z	Р
04APO1	Text Analysis and Comprehension Jana Ková ová	Z	2	28	Z	Р
04APOK	Text Analysis and Comprehension - Examination Jana Ková ová Jana Ková ová	ZK	1		L	Р
04APO2	Text Analysis and Comprehension 2 Jana Ková ová	Z	1	28	L	Р
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	Р
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	KZ	4	2+2	L	Р
18PJ	Programming in Java Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	Р
04AP3KK	Course in Communication Skills - Final Examination Nathaniel Patton Jana Ková ová	ZK	2		Z	Р
04APK3	Course in Communication Skills 3 Jana Ková ová	Z	1	28	Z	Р
04APSK	Course in Language Structures - Final Examination Nathaniel Patton Jana Ková ová	ZK	2		Z	Р
04APS3	Course in Language Structures 3 Jana Ková ová	Z	1	28	Z	Р
18INTA	Development of internet applications Jakub Klinkovský, Dana Majerová Dana Majerová (Gar.)	KZ	4	2P+2C	L	Р
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	Р

04APA	Course in Applied English Usage	Z	1
To sign in for the co	ourse, student will have passed final examination in Course in Language Structures (04APSK). The course concludes	study of grammar structures an	d applies the
•	veryday and ESP language situations, laying stress on choice of exact and adequate language and grammar structure	, ,	
ranslations		· ·	· ·
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 acc	quired in course 04APA. Duration	on: written pa
100 minutes, oral	part - ca 30 minutes.		
1DIM1	Discrete Mathematics 1	Z	2
he seminar is dev	oted to elementary number theory and applications. It includes individual problem solving.	' '	
1DIM2	Discrete Mathematics 2	Z	2
he seminar is dev	oted to recurrence relations. It includes individual problem solving.	' '	
)4APR1	Life and Institutions of English-speaking Countries and the CR 1	Z	2
he course is aime	ed at preparing the student for the state language examination and is based on topics required for this examination. Gr	eat emphasis is placed on train	ning oral
resentation of fac	ts about English speaking-countries in comparison with the Czech Republic. The course covers one third of topics for	the state language examination	n.
1MAT3	Mathematics 3	Z,ZK	4
he subject summa	arises the most important notions and theorems related to the study of finite-dimensional vector spaces.	' '	
1MAT4	Mathematics 4	Z,ZK	4
inear and non-line	ear differential equations of the first order. Linear differential equations of higher order with constant coefficients. Multiv	ariable calculus and its applica	ations.
12PAS	Computer Algebra Systems	Z	2
	I introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constitu		

04APO1	Text Analysis and Comprehension	Z	2
The course is a seque	to the 04APU1 and 04APU2 courses and students will have successfully passed the 04APS2 course. It focuses on further v	vritten functions sp	ecific to English
for Specific Purposes	(ESP). Increasing attention is given to extending subtechnical vocabulary, text grammar and text comprehension. Students are	taught how to use	formal language
in written and oral con	munication.		
04APOK	Text Analysis and Comprehension - Examination	ZK	1
The course content is	the examination as given by the study plan. To be eligible to take the examination students will have successfully completed t	he 04APO1 and 04	4APO2.courses
The examination cons	ists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the k	nowledge and skill	s acquired in
both courses.			
04APO2	Text Analysis and Comprehension 2	Z	1
The course is a seque	to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the	ne bachelor's proje	ct by developing
text grammar practice	and acquainting with basics of English punctuation.		
18PRC1	Programming in C++ 1	Z	4
This course covers ma	inly the C programming language and non-object oriented features of the C++ language.	<u> </u>	
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 Templal	te 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.	, ,	
04AP3KK	Course in Communication Skills - Final Examination	ZK	2
	ule examination as given by the study plan. Final examination 04AP3KK covers syllabi of all three courses in communication	skills. It is usually c	oral, but a written
test may be administe	red. Examination requirements are similar to those of state examination. Student will be able to engage in communication and	d discussion on a g	jiven topic, using
appropriate vocabular	y and grammar structures.		
04APK3	Course in Communication Skills 3	Z	1
The last semester of o	onversation course. Student will further develop his/her speaking skills to be able to use English competently, speak about to	pics covered by pr	evious courses
without making mistak	es and making use of appropriate vocabulary.		
04APSK	Course in Language Structures - Final Examination	ZK	2
The course content is	the examination as given by the study plan. To register for final examination 04APSK student will have passed a 3-semester processed.	programme compri	sing courses
04APS1, 04APS2, and	d 04APS3. It consists of two parts: written (duration 100 minutes) and oral (duration about 30 minutes). Student will demonstr	ate he/she has ma	stered English
grammar and can relia	bly use it in practice as well as explain why a rule applies.		
04APS3	Course in Language Structures 3	Z	1
The course 04APS3 is	a sequel to course 04APS2. Its purpose is also to correctly use and revise further English grammar structures as acquired by	y student, to develo	op them and use
in practice.			
18INTA	Development of internet applications	KZ	4
The lectures provide a	n overview of modern technologies for the development of web applications. Students will learn basic web languages and co	ncepts (HTML, UR	L, etc.) and they
will also be introduced	to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simple	lest to more advan	ced. The course
is oriented primarily to	wards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript.		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriented Int	roduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted wit	th some basic tools	s fort scientific
and technicval comput	ing, 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 01BPAl2 lze zapsat až po složení zkoušky z předmětu 04APSK.

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) **Bachelor's Degree Project 1** 01BPAI1 Ζ 5 0+5Ρ Pavel Strachota, Václav K s Pavel Strachota Pavel Strachota (Gar.) **Bachelor's Degree Project 2** Z 01BPAI2 10 0+10 Р Pavel Strachota Pavel Strachota (Gar.) Elementary Introduction to Graph Theory
Petr Ambrož, Zuzana Masáková Petr Ambrož Edita Pelantová (Gar.) 2P+0C 01EIG ZK Language Support to Bachelor Project Jana Ková ová Jana Ková ová (Gar.) 04JPBP Ζ 2S L Ρ Language Support to Bachelor Project 04APJP Ζ L 5S Р Nathaniel Patton, Darren Copeland Jana Ková ová Life and Institutions of English-speaking Countries and the 04APRK ZK 3 Ζ Ρ **CR - Examination** Nathaniel Patton Jana Ková ová Life and Institutions of English-speaking Countries and the Ζ 04APR2 Ζ 2 **4S** CR₂ Jana Ková ová **Computer Graphics 1** 01PGR1 Z,ZK 2 1P+1C Ρ Pavel Strachota Pavel Strachota (Gar.)

01PGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		Р
01SITE1	Computer Networks 1 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	Z	2	2+0	Z	Р
01BASE	Zden k ulík Zden k ulík Zden k ulík (Gar.) Bachelor Seminar	Z	1	0P+2S		P
01UOP	Pavel Strachota Pavel Strachota (Gar.) Introduction to Object Programming	ZK	2	0+2		P
	Zden k ulík Zden k ulík Zden k ulík (Gar.) Introduction to Probability 1					
01UP1	Jan Vybíral Jan Vybíral Jan Vybíral (Gar.) Introduction to Probability 2	Z,ZK		1P+1C		Р
01UP2	Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		Р
01UTEI	Introduction to Theoretical Informatics 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=I	RS D ADIN 3	erd vear			
	chelor's Degree Project 1	DO 1 _AI III 0	na year		Z	5
	the selected topic under the supervision. Supervision and regular checking of the back	chalor project und	der preparation	n.		
	chelor's Degree Project 2	halar praiact up	dar aranaratia.		Z	10
	n the selected topic under the supervision. Supervision and regular checking of the bac ementary Introduction to Graph Theory	chaior project und	der preparation	_	ZK	3
The course provides an expl	anation of basics of graph theory, followed by a survey of common graph algorithms.			· -	· ·	
· · · · · · · · · · · · · · · · · · ·	nguage Support to Bachelor Project ents will have passed all the English courses from the previous 5 semesters. The course	a instructs studer	nts in the strate	any of writi	Z na submitti	3 na presentina
•	Project in English. Their progress is continuously monitored and assessed. To finish the				•	0.
04APJP Lar	nguage Support to Bachelor Project				Z	5
_	ents will have passed all the English courses from the previous 5 semesters. The course				•	0.
_	Project in English. Their progress is continuously monitored and assessed. To finish the		s will give a p			
	e and Institutions of English-speaking Countries and the CR - Exam				ZK	3
	amination as given by the study plan. To be eligible to take the examination students w two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will pro					
both courses.	two parts. written (duration 100 minutes) and oral (about 30 minutes). Students will pro	ove they can use	and apply the	Knowledg	e and skills	acquired in
04APR2 Life	e and Institutions of English-speaking Countries and the CR 2				Z	2
	PR1 course is again aimed at preparing the student for the state language examination a					
language examination.	sentation of facts about English speaking-countries in comparison with the Czech Rep	ublic. The course	covers two re	maining ti	niras ot topi	cs for the state
	mputer Graphics 1			Z	ZZK	2
l l	ester "Computer Graphics" course is devoted to the specifics of digital display devices s	panning from his	tory up to the			
	ems 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	ourse covers the	applications of	computer	graphics a	pproaches in
	entific documents and presentations. mputer Graphics 2			7	,ZK	2
The state of the s	emester "Computer Graphics" course begins with a brief introduction to signal theory	in the context of a	aliasing - a ph			
graphics. Further, a well structure	ctured survey of fundamental problems in 3D computer graphics is given together with	their solutions, f	rom the descr	ption of a	3D scene to	its realistic
	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	the last lecture, a	number of the	eoretical c	oncepts are	e demonstrated
	ce 3D modeling and rendering software instrument. mputer Networks 1			1	Z	2
ļ.	riputer Networks 1 Id present network (LAN, WAN, use the principles and technologies). Architecture of re	ference model IS	SO/OSI Netwo	rk protoco	1	
= -	rnet services - mail, remote access, www. Secure communication, tunneling. Directory s			-		
(PKI). Use in practice. Netwo	rk security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.	. (According to th	e interest - the	serial co	ntrol lines, r	nodems)
01SITE2 Co	mputer Networks 2				Z	2
	nd present network (LAN, WAN, use the principles and technologies). Architecture of re			-	-	
	rnet services - mail, remote access, www. Secure communication, tunneling. Directory s rk security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.				-	-
		. (According to th	e interest - trie	Serial Col	Z	2
l l	esentation Course ents for presenting issues in their field by mastering the strategies and techniques of or	al presentation T	he course incl	l udes disci	1	
	greement). Students will be able to respond to comments on their presentation and ans	-				_
	of the Bachelor Project. Students will learn the basic structure of a Bachelor Project at	-				
	ndows Programming		146		Z	2
	or MS Windows. Basic editing controls. File input and output. User defined components	s, aynamıc type id	entification ar	na reflectio	on. Z	1
	chelor Seminar r, students familiarize themselves with the general principles of publishing and presenti	na scientific work	and the form	 al requiren	_	•
•	r, students familiarize themselves with the general principles of publishing and present econd part is designed as a practical training for the defense of the bachelors degree p	•				•
	during the work on their projects. Each presentation is followed by a discussion on scie					
performance.	•				-	

performance.

01UOP	Introduction to Object Programming	ZK	2
Object oriented pro	ogramming languages. Object oriented programming libraries for graphics, databases and distributed systems.		
01UP1	Introduction to Probability 1	Z,ZK	3
1.Random trial witl	h finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and	geometry, Bertrar	nds paradox
4.Conditional prob	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and me	ean value 6.Proble	ems involving the
calculation of mean	n value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants		
01UP2	Introduction to Probability 2	Z,ZK	3
1. One-dimensiona	al continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction	on of probability ar	nd connection to
measure theory. 4.	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristic	s. 6. Elementary r	nethods for poin
estimations. 7. Ger	nerating pseudorandom numbers from the selected distribution.		
01UTEI	Introduction to Theoretical Informatics	ZK	3
01ZAOS	Introduction to Operating Systems	Z,ZK	2
Introduction to stru	acture of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Memory m	napped files.	•

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 0

The role of the block: PV

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

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:

Only one of these courses is obligatory.

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00EKOT	Economy in Technology Jana Ková ová	Z	1	2+0		PV
00ETV	Ethics of Science and Technology Jakub Hají ek Jana Ková ová Jakub Hají ek (Gar.)	Z	1	0+2	L	PV
00RET	Rhetoric Jana Ková ová Jana Ková ová Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová Martin ech (Gar.)	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová Jakub Hají ek (Gar.)	Z	1	0+2		PV

Characteristics of the courses of this group of Study Plan: Code=BSSPOLVEDY Name=BS - Social Sciences

Ondi dotter isties of	the courses of this group of olday Flant. Code-Book OLVED Hame-Bo Cociai ociences		
00EKOT	Economy in Technology	Z	1
The course introduces t	the basics of micro- and macroeconomics.		'
00ETV	Ethics of Science and Technology	Z	1
00RET	Rhetoric	Z	1
The course is focused of	n the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	ne composition of	public speech
as well as to its nonvert	oal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	integral part of th	ne course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1

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 V ra Šlechtová (Gar.)	ZK	4		Z	PV

				 1	
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 (Gar.)	ZK	4	Z	PV
04XNPZK	German for Advanced Students Examination 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 (Gar.)	ZK	4	Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) 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

		717	4
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 course	s and can only
be taken after success	ful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
	ntermination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the	CESP1,2,3 course:	s and can only
be taken after success	ful 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 exa	ı mination as given by the study programme. The whole French programme is ended with an examination covering the conten	ts of FM1-FM3. The	e examination
consists of a written ar	nd 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 pro-	gram is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral p	I	d according to
•	ns, a document available on the web. Assessment of the presentation is included into the examination grading.	J	· ·
04XFZZK	French for Beginners Examination	ZK	3
-	iniation as given by the study plan. The course is terminated with an examination consisting of oral and written part. The ex	1	oy the document
	ation. Its content covers the levels FZ1 - FZ5.		•
04XNMZK	German for Intermediate Students Examination	ZK	4
-	the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examina	I	
	the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asset	•	•
is to be obtained from	the teacher.		
is to be obtained from 04XNPZK	the teacher. German for Advanced Students Examination	ZK	4
04XNPZK			
04XNPZK The course content is	German for Advanced Students Examination	ion consisting of tw	ı o parts - written
04XNPZK The course content is and oral, which cover	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	ion consisting of tw	ı o parts - written
04XNPZK The course content is and oral, which cover information is to be ob	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungradationed from the teacher.	ion consisting of tw ded assessment. N	o parts - written
04XNPZK The course content is and oral, which cover information is to be ob 04XRMZK	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungradation that the teacher. Russian for Intermediate Students Examination	ion consisting of tw ded assessment. M	o parts - written
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04XNPZK The course content is and oral, which cover information is to be ob 04XRMZK The course content is - RM3. Students are e 04XRPZK	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraditation the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions are given instructions. Russian for Advanced Students Examination	ion consisting of two ded assessment. No ZK owledge and skills a ctions by the teach	or parts - written or parts - wr
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04XNPZK The course content is and oral, which cover information is to be ob 04XRMZK The course content is - RM3. Students are e 04XRPZK The course content is - RP3. Students are el 04XRZZK The course content is - RZ5. Students are el 04XSMZK The course content is inon-graded assessme	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrated from the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructive examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for Intermediate Students Examination The examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written for course SM3. Oral examination follows the written part. Spanish for Advanced Students Examination The examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite to Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.	ZK wiledge and skills a ctions by the teach ZK wiledge and skills a ctions by the teach ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK tions by the teache ZK ten part, students w ZK e for admission to co	oparts - written fore detailed 4 acquired in RM1 er. 4 acquired in RP1 er. 3 acquired in RZ1 er. 4 vill have obtained 4 vral part is having
04XNPZK The course content is and oral, which cover information is to be ob 04XRMZK The course content is - RM3. Students are e 04XRPZK The course content is - RP3. Students are el 04XRZZK The course content is - RZ5. Students are el 04XSMZK The course content is inon-graded assessme 04XSPZK The course content is inon-graded assessme 04XSPZK The course content is passed the written tes	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrated tained from the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructive examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for Intermediate Students Examination The examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written for course SM3.Oral examination follows the written part. Spanish for Advanced Students Examination The examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student. Spanish for Beginners Examination	ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK ctions by the teache ZK ten part, students will a ction part.	oparts - written fore detailed 4 acquired in RM1 er. 4 acquired in RP1 er. 3 acquired in RZ1 er. 4 vill have obtained 4 ral part is having
04XNPZK The course content is and oral, which cover information is to be ob 04XRMZK The course content is - RM3. Students are e 04XRPZK The course content is - RP3. Students are el 04XRZZK The course content is - RZ5. Students are el 04XSMZK The course content is information-graded assessme 04XSPZK	German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraditation the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructive the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knot ligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive to the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructive to the oral examination only after a prior pass in RZ5 and a successful written and oral examination testing the knot ligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructive for the oral examination only after a prior pass in RZ5 and a successful written and oral examination the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written to course SM3. Oral examination follows the written part. Spanish for Advanced Students Examination the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite to Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an indi	ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK wiledge and skills a ctions by the teache ZK ctions by the teache ZK ten part, students will a ction part.	o parts - written fore detailed 4 acquired in RM1 er. 4 acquired in RP1 er. 3 acquired in RZ1 er. 4 will have obtained 4 ral part is having

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 zkoušku z angličtiny lze absolvovat až po složení zkoušek ze všech

kurzů, jejichž obsah je součástí.

	kurzú, jejichž obsah je současti.	T		1		
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 (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 (Gar.)	Z,ZK	4	2+2	L	V
18MAK2	Macroeconomics 2 Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	Z	V
00MAM1	Essentials of High School Course 1 David Be	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 (Gar.)	Z,ZK	4	2P+2C	Z	V
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	V
18PROP	Practical training in programming 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 ulík Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	Z	V
01SOS2	Software Seminar 2 Zden k ulík 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 Petr Voká (Gar.)	Z	2	1+1		V

01ZPB1	Petr Voká Petr Voká Petr Voká (Gar.)	Z	2	1+1		V
Characteristics of	of the courses of this group of Study Plan: Code=BSPAPINV N	ame=BS P_APIN (Optional	courses		
04APSZK	English - State Examination			Z	'K	5
The course content is	the examination as given by the study plan. Student is eligible for the State language	examination (level C1 or	B2 of CEFI	R) only if he/s	he has pa	ssed all the
respective courses an	nd examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, pa	art of the APIN programn	ne covers al	so examinatio	on subject	s. As required,
examination condition	s comply with respective rules and regulations for state language examinations.					
01DEM	History of Mathematics				Z	1
The subject has the fo	orm of regular seminars where the members of the department of mathematics, but als	o invited speakers - spec	ialists in the	field - give th	eir talks o	n varoius topics
from the history of ma	athematics.					

18EKN	Econometrics	Z,ZK	4
	ed on economic theory and the relations between economic quantities are expressed by mathematical tools and observed dat		•
erification.	ents of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and		
1JEPR	Simple Compilers	Z	2
-	nalysis, code generation, simple optimizations, development environments, reflection.	7.71/	4
8MAK1	Macroeconomics 1 Macroeconomics Macroeconomics Macroeconomy works Macroeconomy work	Z,ZK	4
	librium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basi		•
· ·	ications 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.		
8MAK2	Macroeconomics 2	Z,ZK	4
lacroeconomics II e	xtends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary mac	roeconomics. They	are models of
-	pecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students		
_	economic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provid	es students with mo	dern knowled
f labor market mode			
OMAM1	Essentials of High School Course 1	Z	1
	ced to mathematical concepts and methods used in the introductory physics course.	7	
OMAM2	Essentials of High School Math Course 2	Z	1
		7.71/	
8MIK	Microeconomics set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. I	Z,ZK	4
	these processes and makes more clear behaviour of the economic agents. Lectures and seminars are designed so that the exp	-	
	whelse processes and makes more stear behaviour of the economic agents. Ecolores and seminars are designed so that the exp whelse of calculus.		nomic concep
2NME1	Numerical Methods 1	Z,ZK	4
	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technolog	1	· ·
•	sts (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated comp	-	
sed as a principle p	rogramming language as a demonstration tool. The seminars are held in computer laboratory.		
8PROP	Practical training in programming	KZ	3
he goal of this cour	se is to understand advanced topics related to programming, code design and software project development. Students will pra	ctice pragmatic tecl	nniques and
rinciples on concret	e real-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers wor	k efficiency and ens	ure high qual
f the final source co			
1PERI	Programming of Peripherals Devices	Z	2
	, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripher		
8PMTL	Programming in MATLAB	KZ	4
itroducing Matlab e nd geometric repre	nvironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic a	inalysis, statistics, a	Igorithmizatioi
8PPY1		Z	2
-	Programming in Python 1 es students to advanced features of the Python language and common scientific packages. The course covers both object-oriente		_
	ring part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages		
8PPY2	Programming in Python 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2
	es students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar	1	_
	nort demo of a real-world application in the specific field.	·	•
8PPY3	Programming in Python 3	Z	2
his advanced cours	e is intended for students who have basic experience with programming in Python and using its libraries. It introduces students	to advanced concep	ts of the Pytho
nguage and modul	es they are based on.		
8PW	Web environment and markup languages	KZ	2
he course introduce	es students to fundamental principles and best practices for web design with respect to technical functionality, informational va	lue, readability and	usability.
1PSL	LaTeX - Publication Instrument	Z	2
he course is devote	d to the basics and facilities of computer typography, particularly to the system LaTeX		
1SOS1	Software Seminar 1	Z	2
ava, Java Beans, A	ssembly language programming for microprocessors Intel 80x86		
1SOS2	Software Seminar 2	Z	2
	TK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix	like operating syste	ems, especiall
	ortability to Microsoft Windows.		
V-1	Physical Education	Z	1
V-2	Physical Education	Z	1
V-3	Physical education	Z	1
V-4	Physical education	Z	1
2ZEL1	Basic Electronics 1	Z,ZK	3
ne subject provides	primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. C	circuit analysis meth	ods for linear
rcuits include symb	olic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	ects inside linear cir	cuits.
2ZEL2	Basic Electronics 2	Z,ZK	3
	n with the Basic Electronics 1 Semiconductor elements hasic properties are explained Thecourse's final part deals with hasis	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:

Introduction to Computer Security 1

01ZPB1

The subject follows up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic themes of logical circuits field.

Ζ

Credits in the group: 0 Note on the group:

Note on the gr	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
04XAM1	English for Intermediate Students M1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 Jana Ková ová Darren Copeland (Gar.)	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2 Darren Copeland Darren Copeland (Gar.)	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 Jana Ková ová Darren Copeland (Gar.)	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	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V

Zhanna Isaeva Zhanna Isaeva (Gar.)	04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.)	04XRP1		Z	2	0+2	Z	V
Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+4 L V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+2 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D+4 Z V Zhanna Isaeva Zhanna Isaeva (Gar.) Z D)4XRP2		Z	2	0+2	L	V
)4XRP3		Z	2	0+2	Z	V
AXRZ3	4XRZ1		Z	2	0+4	L	V
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	4XAM1	English for Intermediate Students M1				Z	2

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Characteristics of	the courses of this group of Study Plan: Code=BSPJAZYKYZA	AP Name=BS P	jazyky za	ар		
04XAM1	English for Intermediate Students M1				Z	2
The course is designed	for students who have successfully completed the full secondary school English langu	age course at least a	the A2 leve	of the Com	mon Europe	an Framework
of Reference for Langua	ages (CEFR). It provides an introduction into English for Specific and Academic Purpor	ses (ESP, EAP), i.e., i	nto fundamo	entals of voc	abulary and	style typical of
•	ritten communication situations. Thus it covers topics related to the student's life and n le of grammar issues used in EAP.	eeds as well as topic	s of subtech	nical interes	t. Attention i	s also paid to
04XAM2	English for Intermediate Students M2				Z	2
-	ts the student to have completed the AM1 course. It develops their skills for work with s	subtechnical texts, foo	using also r	nore on spe	cific gramma	ar, functions,
and lexical items typical revision is included.	of ESP and EAP (e.g., definition, existence and classification of phenomena, object des	scriptions). Part of the	course is als	o guided wri	ting. If neces	ssary, grammar
04XAM3	English for Intermediate Students M3				Z	2
The course develops the	e skills that enable students to cope with features typical of professional style. Increasing	g attention is paid to de	eveloping su	btechnical v	ocabulary a	nd independent
understanding of profes	sional texts. Great emphasis is placed on distinguishing different levels of formal and in	nformal oral and writt	en communi	ication and the	heir appropr	iate Czech
equivalents. The course	also includes studying abstracts and rules for writing them as well as basic rules for p	reparing and giving a	short prese	ntation on a	chosen topi	c related to the
student's field.						
04XAP1	English for Advanced Students P1				Z	2
The course is designed	for students who have successfully completed the full secondary school English langu	uage course (at least	the B1 level	of the Comr	non Europe	an Framework
of Reference for Langua	ages - CEFR). It provides an introduction into English for Specific and Academic Purpo	ses (ESP, EAP), i.e.,	into the fund	damentals of	f vocabulary	, functions,
grammar, and style typi	cal of professional oral and written communication situations (fundamentals of terms in	n mathematics and ph	ysics, defini	itions, graph	descriptions	s, etc). It also
covers professional oral	and written communication on topics related to the undergraduate's life and needs. It de	velops skills for free p	rofessional v	vriting (writin	g a CV, lette	r of application,
polite request). If neces	sary, revision of selected grammar topics is included.					
04XAP2	English for Advanced Students P2				Z	2
The AP2 course is base	ed on AP1, thus extending the student's skills for working with subtechnical texts, and	even with professiona	I texts of cho	osen branch	es of scienc	e. According to
the students' needs it c	oncentrates on chosen grammar topics, but mainly intends to develop understanding c	of syntactic structures	and typical	rhetorical fu	nctions (e.g.	, various types
of descriptions, and, if p	possible, a case study). Increasing emphasis is placed on the undergraduate's indeper	ndent work with and re	eading of lin	guistically m	ore demand	ling materials.
The course extends the	student's subtechnical vocabulary, and includes fundamental notions of chosen branc	hes of science. It is fo	cused on fo	rmal writing	including the	e sentence and
paragraph structure, linl	king, cohesion and coherence in texts.					

D4XAP3 | 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 includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.

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	-	
acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written commun situations. The course covers roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo ilová.	ication in the most co	ommon everyday
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 a basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	nd conjugation syste	m and practise
04XCESZ3 Czech for Foreigners - Beginners 3	Z	2
The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuse	_	l
fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to p		-
	•	
frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers 1.	roughly lessons 5-7 li	n estina expres
04XCESM1 Czech for Foreigners - Intermediate 1	Z	2
The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending	_	_
social situations.	9	
	Z	2
04XCESM2 Czech for Foreigners - Intermediate 2	_	2
The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and	reading 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 es	pecially focused on s	stylistics and
lexicology and on developing the student's writing skills.		
04XCESP1 Czech for Foreign Students - Advanced 1	Z	2
The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Commo	_	
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style	•	
basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies		-
	and Student Life. Wil	tteri 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 technic	al and specialist texts	s placing greater
emphasis on individual work.		
04XCESP3 Czech for Foreigners - Advanced 3	Z	2
The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presen	tation, and, finally, pr	esentation of the
student's project. Writing skills necessary for professional communication are trained.	,,,, ,	
	Z	2
04XFM1 French for Intermediate Students M1	_	_
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in		
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language	-	
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	pands language
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skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV	personal statement,	request, answer
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04XFZ3	French for Beginners Z3	Z	2
•	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - P uations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in		· ·
•	Reading covers short adapted texts of general interest first, and later popular science texts.		a as part or
04XFZ4	French for Beginners Z4	Z	2
•	FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The c		
	tbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lec		
	ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shop now to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.	oping, weather, ur	iiversity iii oui
-	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	y present it orally	n the class. The
-	ered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
subjunctive clauses, ger	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla und. passive.	auses, typicai con	unctions,
04XNM2	German for Intermediate Students M2	Z	2
	ther more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between technol	ogy and society,
=	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
· -	mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course systen or professional discourse (participles, relative clauses).	natically revises of	ner grammatical
04XNM1	German for Intermediate Students M1	Z	2
1	rse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and	l l	
•	es (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repub	•	
	gether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	s, and the fundar	entals of IT
04XNM3	German for Intermediate Students M3	Z	2
-	ther more complex grammatical structures and their application in communication based on technical texts, such as the relation	- 1	_
the world at the beginning	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	car technology et	c. Students
· -	mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	natically revises ot	her grammatical
04XNP1	or professional discourse (participles, relative clauses). German for Advanced Students P1	Z	2
	bd grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be lev		
	en focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for		
-	ructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on participles.	practical everyday	communication,
i.e., telephoning. 04XNP2	Cormon for Advanced Students DO	7	2
	German for Advanced Students P2 students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	Z ling their general a	
=	duces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and		
both written and oral (C)	V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).		
04XNP3	German for Advanced Students P3	Z	2
	B main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a va r accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vo	=	
	ng, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used		
•	rocess information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The	ne course also incl	udes translation
practice to and from Ger		7	
04XRM1	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphab	Z	2 nd handwritten)
-	nmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, aski		
they can use basic gram	nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	level of the RZ2 of	ourse. The
<u>.</u>	ne course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.		
	Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	Z	2
04XRM3	Russian for Intermediate Students M3	Z	2
	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, he	Į.	
in the timetable.			
04XRP1	Russian for Advanced Students P1	Z	2
•	nt for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pra- ig the fundamentals of technical language and training writing skills.	acticing more diffic	cult grammar
04XRP2	Russian for Advanced Students P2	Z	2
	RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives,	1	
structures). Stress is put	t on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphras evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).	-	
	evious knowledge of general language at secondary lever (listerling, reading, correct communication in everyday situations). Ity is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and		
	al vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write a	· ·	
technical topics.			
04XRZ1	Russian for Beginners Z1	Z	2
•	he first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak		١
	stress, understand its contents and summarize it.	3,	

17/ V LJ 7/2			
04XRZ2	Russian for Beginners Z2	Z	2
	of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short		
	using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They wi	ill also develop their	vocabulary an
	atical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		
04XRZ3	Russian for Beginners Z3	Z	2
	n RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for tra	-	_
nd listening) and intr	oduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will	be able to respond	so as to be
nderstood, and to ex	press their opinion. Writing skills will be trained on guided writing tasks and note-taking.		
4XRZ4	Russian for Beginners Z4	Z	2
he course is based o	n RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts wit	th a certain percenta	age of unfamilia
ords, oral communic	ation in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ve	erbs, differences in v	verb patterns
om Czech, modality,	imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time)), and practice oral a	and written
ommunication on mo	ore specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g., Siberia), learn	how to fill in
orms, look up the info	ormation from the timetable, learn about Russian holidays and typical meals.		
)4XRZ5	Russian for Beginners Z5	Z	2
he course expects th	e student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. underst	anding, extracting a	nd summarizir
•	ecialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts.		
-	ing grammar is based on professional and technical texts and only includes items typically used in professional communicati		
	nts develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite requ		
04XSM1	Spanish for Intermediate Students M1	, , , <u>, , , , , , , , , , , , , , , , </u>	2
_	d for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-ser		_
_	attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nec		-
, , ,	n and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts		
4XSM2	Spanish for Intermediate Students M3	Z	2
· ·	the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish fo	or specific purposes	in order to be
<u>.</u>	cialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
	supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of aca		
•	ernet in Spanish and search for information of their specialization or field of interest. Students will use the information to write	short articles and s	summaries. The
	Imme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
04XSP1	Spanish for Advanced Students P1	Z	2
	on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication	ation. Course prerec	uisites: level E
of CEFR.			
04XSP2	Spanish for Advanced Students P2	Z	2
Course SP2 is the see	cond part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and s	syntax and focuses	on independer
vritten communication	ı.		
04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the fina	al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	s focused on written	communication
	ts will need in their career.		
04XSZ1	Spanish for Beginners Z1	Z	2
_	t stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funda		
	te at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish	-	dotaroo aria v
04XSZ2	Spanish for Beginners Students Z2	Z	2
		. – .	
	on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and		
	nort adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and countries and countries are else included.	others such as the C	Jzech Republi
	raking countries are also included.		
4XSZ3	Spanish for Beginners Z3	Z	2
he course is based of	on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture)		_
	is attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperati	ive). It includes writt	en and oral
ommunication on a g	iven general topic, for which the student is trained by reading texts or listening to them.	-,	
	Spanish for Beginners Z4	Z	2
ommunication on a c		1	
ommunication on a g 4XSZ4 he course is based of	Spanish for Beginners Z4	nish speaking count	ries, mainly o

04XSZ5

04XSZ5 Spanish for Beginners Z5
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final

part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination.

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.		•

00MAM2	Essentials of High School Math Course 2	Z	1
0007	Review of basics of high school mathematics.		
00PT	Preparatory Week	Z	2
00RET	Rhetoric used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	Z	l 1
	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an		•
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01BASE	Bachelor Seminar	Z	1
	ie 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 preser		
the research results	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.	littles of improving	ine students
01BPAI1	Bachelor's Degree Project 1	Z	5
	achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	_	
01BPAI2	Bachelor's Degree Project 2	Z	10
	achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under		
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.	ive their talks on va	arolus topics
01DIM1	Discrete Mathematics 1	Z	2
OTDIMI	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	_	
01DIM2	Discrete Mathematics 2	Z	2
	The seminar is devoted to recurrence relations. It includes individual problem solving.		I
01EIG	Elementary Introduction to Graph Theory	ZK	3
	The course provides an explanation of basics of graph theory, followed by a survey of common graph algorithms.		
01JEPR	Simple Compilers	Z	2
04144774	Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.	7	4
01MAT1	Mathematics 1 to the study of the basics of calculus of one variable. It includes an introduction to differential and integral calculus, with particula	Z r emphasis on ann	d dications in
The course is deve	practical problems.	i emphasis on app	nications in
01MAT2	Mathematics 2	Z	4
The course, which	th is the continuation of Mathematics 1, is devoted to the integration techniques, improper Riemann integral, introduction to parametri	c curves (especial	ly 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
-	ן אומנויפרוומניט 4 n-linear differential equations of the first order. Linear differential equations of higher order with constant coefficients. Multivariable cal		l
01MATZ1	Mathematics, Examination 1	ZK	2
01MATZ2	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 peripherals	herals device drive	ers.
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	-	
	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex Inowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com	•	
algorithms using K	the process of authoring scientific documents and presentations.	puter grapriics app	noaches in
01PGR2	Computer Graphics 2	Z,ZK	2
	of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenom	,	
• '	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		
at FNSFE. The algo	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.	ai concepts are de	emonstrateu
01PSL	LaTeX - Publication Instrument	Z	2
	The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	_	_
01PW	Windows Programming	Z	2
· · ·	graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identification	ion and reflection.	
01SITE1	Computer Networks 1	Z	2
_	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro tions. 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 se		
01SITE2	Computer Networks 2	Z	2
	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro		l
	tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authors.		
	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se		
01SOS1	Software Seminar 1 Java, Java Beans, Assembly language programming for microprocessors Intel 80x86	Z	2
01SOS2	Software Seminar 2	Z	2
	GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like		l .
	for Linux systems. Portability to Microsoft Windows.	= *	•

01UOP	Introduction to Object Programming	ZK	2
01UP1	Object oriented programming languages. Object oriented programming libraries for graphics, databases and distributed syste		2
	Introduction to Probability 1 vith finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and g	Z,ZK	3 naradov
	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean	=	-
•	calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants		Ü
01UP2	Introduction to Probability 2	Z,ZK	3
	al continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of	•	
measure 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 metho	ds for point
01UTEI	Introduction to Theoretical Informatics	ZK	3
01ZAOS	Introduction to Operating Systems	Z,ZK	2
	tion to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Me		_
01ZPB1	Introduction to Computer Security 1	Z	2
02DEF1	History of Physics 1	Z	2
	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	•	•
Helenistic period,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I as experimental science. Newton and his work.	luygens. The birth	of physics
02FY1	Physics 1	Z,ZK	4
-	s and applications of mechanics, waves and thermodynamics ? basic level. The lecture is supplemented with practical investigation a	l ' I	
	physical phenomena.		
02FY2	Physics 2	Z,ZK	4
	nics, electricity and magnetism, modern physics. The lecture is supplemented with practical investigation and demonstration of select		mena.
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		
test may be admini	stered. Examination requirements are similar to those of state examination. Student will be able to engage in communication and disc appropriate vocabulary and grammar structures.	cussion on a given	topic, using
04APA	Course in Applied English Usage	Z	1
-	ourse, student will have passed final examination in Course in Language Structures (04APSK). The course concludes study of gramm	-	pplies them
to understanding e	everyday and ESP language situations, laying stress on choice of exact and adequate language and grammar structures in both Engl	ish-Czech and Cze	ch-English
	translations		
04APAK	Course in Applied English Usage - Examination	ZK	2
The 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 - 100 minutes, oral part - ca 30 minutes.	04APA. Duration:	written part
04API	Presentation Course	7	2
	pare students for presenting issues in their field by mastering the strategies and techniques of oral presentation. The course includes of	. – .	
comments, agreem	nent, disagreement). Students will be able to respond to comments on their presentation and answer questions addressed to them after	er the presentation	, which is a
	skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writing		
04APJP	Language Support to Bachelor Project	Z	5
=	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		-
04APK1	Course in Communication Skills 1	Z	2
-	/elop communication strategy and skills of student acquired at secondary school or elsewhere. Competence at B1 level of CEFR is a	l I	
the course. It rur	ns for 3 semesters, being a core course of the Applied Information Technology programme. It will develop student's communication sk	kills in an integral fo	orm (e.g.,
listening and discu	ussion on a topic). The list of topics is similar to that of the State Language Examination. Student will develop their vocabulary for variable to the state of the state Language of the state of the s		situations
044000	and will master their communication strategy. He/she will be trained to express his/her ideas clearly and according to current English		
04APK2 The course is also	Course in Communication Skills 2 concerned with developing speaking skills in English acquired at secondary school and course 04APK1. Speaking skills will be train	Z Z	2 ning skills
	trate on everyday life and cover topics of the State Language Examination, stressing mastery of speaking strategy in various situation	=	-
·	developing student's vocabulary, ability to express thoughts with accuracy in correct English.		·
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	us courses
	without making mistakes and making use of appropriate vocabulary.	71/	
04APKK	Course in Communication Skills - Examination nt is the examination as given by the study plan. The examination tests how well student has mastered vocabulary and facts of course	ZK APK1 and M	Π ΔPK2 The
The course conten	examination consists of two parts - written (duration 100 minutes), and oral (about 30 minutes).	25 047 II TOT GITG 042	M NZ. IIIC
04APO1	Text Analysis and Comprehension	Z	2
	quel to the 04APU1 and 04APU2 courses and students will have successfully passed the 04APS2 course. It focuses on further writte	I I	
for Specific Purpos	es (ESP). Increasing attention is given to extending subtechnical vocabulary, text grammar and text comprehension. Students are taug	ht how to use form	al language
044000	in written and oral communication.	7	
04APO2 The course is a sec	Text Analysis and Comprehension 2 quel to course 04APO1 and focuses on guided writing (e.g., note-taking, précis, abstract). It is intended as preparation for writing the ba	Z Z achelor´s project by	developing
The course is a sec	text grammar practice and acquainting with basics of English punctuation.	toriolor a project by	acveloping
04APOK	Text Analysis and Comprehension - Examination	ZK	1
The course conten	it is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the 0		
The examination	consists of two parts: written (duration 100 minutes) and oral (about 30 minutes). Students will prove they can use and apply the known	wledge and skills a	cquired in
044554	both courses.	7	
04APR1	Life and Institutions of English-speaking Countries and the CR 1 imed at preparing the student for the state language examination and is based on topics required for this examination. Great emphas	Z Z	2 ning oral
	imed at preparing the student for the state language examination and is based on topics required for this examination. Great emphas Lof facts about English speaking-countries in comparison with the Czech Republic. The course covers one third of topics for the state	•	_

04APR2	Life and Institutions of English-speaking Countries and the CR 2	Z	2
	ng 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 training	ng 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	for the state
04APRK	Life and Institutions of English-speaking Countries and the CR - Examination	ZK	3
The course conter	nt is the examination as given by the study plan. To be eligible to take the examination students will have successfully completed the C)4APR1 and 04AF	PR2.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 known both courses.	wledge and skills	acquired in
04APS1	Course in Language Structures 1	KZ	3
	signed 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
	e 04APS2 is a sequel to course 04APS1. Its purpose is also to correctly use and revise further English grammar structures as acquir		
04APS3 The course 04APS	Course in Language Structures 3 3 is a sequel to course 04APS2. Its purpose is also to correctly use and revise further English grammar structures as acquired by stu	Z dent, to develop the	1 hem 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	e, and 04APS3. It consists of two parts: written (duration 100 minutes) and oral (duration about 30 minutes). Student will demonstrate grammar and can reliably use it in practice as well as explain why a rule applies.	he/she has maste	ered English
04APSZK	English - State Examination	ZK	5
The course conte	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	if he/she has pas	ssed all the
respective courses	s and examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also exam examination conditions comply with respective rules and regulations for state language examinations.	nination subjects.	As required,
04APU1	Introduction to English for Specific Purposes 1	Z	2
	ntroduce student into English for Specific Purposes (ESP) and acquaint him/her with its functions in subtechnical or easy technical te functions typical of ESP and it introduces student to basic mathematics and information technology terms.	_	1 1
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 ESP and more advanced information technology terms.	_	- 1
04APUK		ZK	1
	Introduction to English for Specific Purposes - Examination ent is the examination as given by the study plan. Examination 04APUK consists of two parts - written part (duration 100 minutes) and	l	1
	rs a 2-semester programme. To be eligible for examination, student will have passed courses 04APU1 and 04APU2 and the examination		
	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	ation of their Bach	helor Project.
04XAM1	English for Intermediate Students M1 gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C) Z	n Framowork
	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.	=	
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	l	
and lexical items ty	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.	writing. If necessar	ary, grammar
04XAM3	English for Intermediate Students M3	Z	2
	ps the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	_	1
_	f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The co	ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation o student's field.	n a chosen topic ı	related to the
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		
covera hiniessing	I 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.	nung a Cv, letter C	л арріісацісті,
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 brain	l .	1
	s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical	,	
	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical	-	- 1
ne course extend	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing, cohesion and coherence in texts.	ng including the s	sentence and
04XAP3	English for Advanced Students P3	Z	2
	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	. –	1
	cills 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		
0.00/0755	communication.		
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
THE COURSE IS TOCUS	sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the s social situations.	.uueni s vocadula	iry ioi vailous

04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readin	g 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 i	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	ally focused on styl	istics and
	lexicology and on developing the student's writing skills.		
04XCESMZK	Czech for Intermediate Students 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		nd can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		-
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	ean Framework of	
It is focused partly	on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of scie	ence. Students are	taught the
	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S		
	includes communication with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	s the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	specialist texts pla	cing greater
	emphasis on individual work.		
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	and, finally, presen	tation of the
'	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		-
	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 gr	_	
	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication		-
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.		, ,
04XCESZ2	Czech for Foreigners - Beginners 2	7	2
	I communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and cor	_	
o idi.igaago airo	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	,jugao oyoto a	a praouoc
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 l	_	
	inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce		-
	ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	· ·	
04XFM1	French for Intermediate Students M1	7	2
04XFM1 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 w	Z vritten and oral for	2 m. Students
French - intermedi	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	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 tra	vritten and oral for nsmit general and	m. Students technical
French - intermedia will be able to co information and to	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 mizes and expand	m. Students technical Is language
French - intermedia will be able to co information and to skills gained in pre-	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both voluments. They will be able to use the language to trans solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systems.	vritten and oral form nsmit general and mizes and expand nal statement, requ	m. Students technical Is language lest, answer
French - intermedi will be able to co information and to skills gained in pre- to an advert,	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both of mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trate solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systewious 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	vritten and oral for nsmit general and mizes and expand al statement, requ rk based on these	m. Students technical Is language lest, answer texts.
French - intermedi will be able to co information and to skills gained in pre- to an advert, 04XFM2	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 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	vritten and oral for nsmit general and mizes and expand nal statement, requ rk based on these Z	m. Students technical is language test, answer texts.
French - intermedi will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both of mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trate solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systewious 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	vritten and oral forn nsmit general and mizes and expand all statement, requirk based on these Zs, features typical	m. Students technical Is language test, answer texts.
French - intermedi will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both of mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, system 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 forn nsmit general and mizes and expand all statement, requirk based on these Zs, features typical	m. Students technical Is language test, answer texts.
French - intermedi will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds and scientific lar	are FM The objective of this three-semester course is to improve and further develop communication in the French language in both of immunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to translate in social interaction and in academic, scientific and professional environment. They will be able to use the language to translate in solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systewious 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 text anguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science.	vritten and oral forn nsmit general and mizes and expand all statement, requirk based on these Zs, features typical	m. Students technical Is language lest, answer texts. 2 for technical y, French
French - intermedi. will be able to co information and to skills gained in pre- to an advert, 04XFM2 Course FM2 builds and scientific lar	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both of immunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systewious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, person 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 text arguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	written and oral formsmit general and mizes and expandial statement, requirk based on these Zs, features typical ince and technolog	m. Students technical is language lest, answer texts. 2 for technical y, French
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04XFZ1			
	French for Beginners Z1	Z	2
•	ers 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 soc	• .	
	les French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able tousing the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravo		- 1
	e za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe	=	
giving the	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gramma	r.
04XFZ2	French for Beginners Z2	Z	2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the		
•	nners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement of the control	•	
thanking, travelling	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communi How does the machine work? A few expressions concerning the study. Name of University and Faculty.	cation. Specific topics	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		
	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for inf		- 1
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4	French for Beginners Z4	Z	2
	s up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The con		
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur		ັ ັ
Students of FJF1.	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, intern-	=	ity iii oui
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 pre-	_	
•	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	=	
notes, success	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate class)	auses, typical conjun	ctions,
	subjunctive clauses, gerund, passive.		
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 examin	ation is ruled by the	document
OAVNINA	Instruction for examination. Its content covers the levels FZ1 - FZ5.	7	
04XNM1 The objective of the	German for Intermediate Students M1 e course is to level off the students´skills in the German language. The course focuses on revision of more difficult phenomena and st	Z ructures (e.g. the pas	2
	n 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 understanding the contract of the	standability.	
04XNM2	German for Intermediate Students M2	Z	2
	ices other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	•	
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and rinformation and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati		
practise reading for	phenomena important for professional discourse (participles, relative clauses).	cally revises offici gra	immaticai
04XNM3			
	German for intermediate Students ivis	Z	2
The course introdu	German for Intermediate Students M3 ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be		_
the world at the l	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	etween technology ar car technology etc. S	d society, tudents
the world at the l	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and a rinformation and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic	etween technology ar car technology etc. S	d society, tudents
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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		2
04XRM3 The course develop	Russian for Intermediate Students M3 os 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.	Zever, for half of the	2 time allotted
04XRMZK	Russian for Intermediate 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		
	ents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	-	
04XRP1		Z	2
-	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	_	
	structures, understanding the fundamentals of technical language and training writing skills.		grammar
04XRP2	Russian for Advanced Students P2	Z	2
The course is bas	ed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, νε structures). Stress is put on independent oral and written communication.	erb aspects, specifi	c syntactic
04XRP3	Russian for Advanced Students P3	7	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasin	. –	
	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 w	· · · · · · · · · · · · · · · · · · ·	-
	chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc	· · · · · · · · · · · · · · · · · · ·	
	technical topics.	aratory and with oc	1111001100 011
04XRPZK	Russian for Advanced 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		· ·
	ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given insti		
04XRZ1	Russian for Beginners Z1	7	2
_	Russian for Degrinners 21 ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	Thus it bogins wit	
	per (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	-	-
the Russian aiphac	a short text with marked stress, understand its contents and summarize it.). Otaderits will be	able to read
04XRZ2		Z	2
	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtr	1	
	te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als		
able to communica	master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	=	abulal y allu
04XRZ3		Z	2
-	Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training	_	_
	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		_
and listerling) and	understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.	able to respond s	3 43 10 50
04XRZ4	Russian for Beginners Z4	Z	2
	rkussian for beginners 24 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a c	_	
	iunication in evervoav situations, writing longer texts). Students are trained to use drammar structures effectively (e.g., irregular verbs		
	unication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a	s, differences in ve	b patterns
from Czech, mod	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a	s, differences in ver and practice oral ar	b patterns nd written
from Czech, mod	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a n more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g.	s, differences in ver and practice oral ar	b patterns nd written
from Czech, mod communication o	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a n 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.	s, differences in ver and practice oral ar ., Siberia), learn ho	b patterns nd written ow to fill in
from Czech, mod communication o	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), an 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. Russian for Beginners Z5	s, differences in verand practice oral ar ., Siberia), learn ho	b patterns nd written ow to fill in
from Czech, mod communication of 04XRZ5 The course expects	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), an 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. Russian for Beginners Z5 sithe student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding).	s, differences in verand practice oral ar ., Siberia), learn ho	b patterns and written bow to fill in 2 ummarizing
from Czech, mod communication of 04XRZ5 The course expects information from a significant course of the course of	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), an 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. Russian for Beginners Z5 s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandir specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication of the complete complete texts and the complete complete complete complete texts.	s, differences in verand practice oral ara., Siberia), learn horal Z	b patterns and written by to fill in 2 ummarizing e trained on
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from Czech, mod communication of 04XRZ5 The course expects information from a severyday topics. Severy	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a number of 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. Russian for Beginners Z5 Is the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication grammar is based on professional and technical texts and only includes items typically used in professional communication for evoice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, por Russian for Beginners Examination	s, differences in version of practice oral arms, Siberia), learn hours, Siberia), learn hours, Siberia), learn hours, extracting and sometimes and sometimes are subjectives, politic request, etc.)	b patterns and written ow to fill in 2 ummarizing e trained on participles,
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from Czech, mod communication of the course expects information from a severyday topics. Spassiv 04XRZZK The course content - RZ5. Stud	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), an 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. Russian for Beginners Z5 The student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication of the voice of the students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, possional for Beginners Examination It is the examination as given by the study plan. The course is completed by taking a written and oral examination. Students are given instructions are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions.	s, differences in version of practice oral arms, Siberia), learn hours, Siberia), learn hours, Siberia), learn hours, extracting and sometimes and simunication skills are (verbal adjectives, polite request, etc.) ZK dge and skills acquidates.	b patterns of written ow to fill in 2 ummarizing e trained on participles, 3 ired in RZ1 cher.
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04XSP3 Spanish for Advanced Students P3 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 focused in the special spanish course.	Z zsed on written com	2 nmunication
based on what students will need in their career.		
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 a passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the		art is having
04XSZ1 Spanish for Beginners Z1	Z	2
i •		
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	-	
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 develor	o it.
04XSZ2 Spanish for Beginners Students Z2	Z	2
Course SZ2 is based 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 short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other		
	3 Such as the Ozeo	ii Kepublic.
Realia of Spanish-speaking countries are also included.		
04XSZ3 Spanish for Beginners Z3	Z	2
The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	e Spanish-speaking	countries,
mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative		-
	j. it iliciaaes wiittei	i aliu olai
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
The course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countries	. mainly of
Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the		-
	•	ibjurictive),
to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listeni	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 for	r specific purposes	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		
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 ex	amination only if he	e/she has
passed the written examination test.		
	Z.ZK	4
	. , .	•
There are explained 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 physicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat	ional environment I	MATLAB is
used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
	Z	2
		_
Practically oriented introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is real	ized in computer cl	assrooms:
students acquire basic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
12UNXAP Introduction to UNIX	7	2
Computer and operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	. – .	
Principles of operating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi		
Command interpreter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to	ools. Graphical use	r interface
X-windows. Computer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a c	omputer. Network s	services:
hardware sharing, mail, scp, etc. Network applications		
	Z	2
	_	
Practically oriented 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
The subject provides primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu		
	-	
circuits include symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	ects inside linear ci	rcuits.
12ZEL2 Basic Electronics 2	Z,ZK	3
The subject follows up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th		
18EKN Econometrics	Z,ZK	4
Econometrics is based on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data from	n economic reality.	The course
covers basic instruments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr	uments for econom	netric model
verification.		
	1/7	4
18INTA Development of internet applications	KZ	4
The lectures provide an overview of modern technologies for the development of web applications. Students will learn basic web languages and concept	its (HTML, URL, etc	c.) and they
will also be introduced to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest	to more advanced.	The course
is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav	/aScript.	
18MAK1 Macroeconomics 1	Z,ZK	4
Macroeconomics I provides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomy		
macroeconomic equilibrium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic marginal processing and the control of the c	croeconomic mode	is of IS-LM,
AS-AD and their implications for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phenomenature.	nena and their interd	connections
and subsequently to use them under the conditions of modern economic life.		
	7 71/	1
18MAK2 Macroeconomics 2	Z,ZK	4
Macroeconomics II extends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroeconomics II extends the latest knowledge of the latest knowle	onomics. They are	models of
economic growth, especially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to m	odern principles of	economic
modeling, i.e., macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provides str	udents with modern	knowledge
of labor market modeling.		•
	7 71/	
18MIK Microeconomics	Z,ZK	4
Microeconomics is a set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. Micro	economics explains	s the role of
prices and markets in these processes and makes more clear behaviour of the economic agents. Lectures and seminars are designed so that the explanati	on of microeconom	ic concepts
does not require knowledge of calculus.		

	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 Matlah	environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis	sis, statistics, algo	rithmization
	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		
paradigms. The foll	owing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages), dat	a processing and	/isualizatior
18PPY2	Programming in Python 2	Z	2
This course intro	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	ed 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	f 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	ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library	
		Template Library.	
18PROP	Practical training in programming	KZ	3
18PROP	Practical training in programming course is to understand advanced topics related to programming, code design and software project development. Students will practic	KZ	_
18PROP 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 techi	niques and
18PROP The goal of this oprinciples on conc	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 efficient of the final source code.	KZ e pragmatic techi ciency and ensure	niques and high quality
18PROP 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 techi	niques and
18PROP The goal of this oprinciples on conc	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 efficient of the final source code.	KZ e pragmatic techi ciency and ensure KZ	hiques and high quality
18PROP The goal of this oprinciples on conc	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 efficient of the final source code. Web environment and markup languages	KZ e pragmatic techi ciency and ensure KZ	hiques and high quality
18PROP The goal of this operinciples on concentration 18PW The course into	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 efficient of the final source code. Web environment and markup languages roduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values.	KZ e pragmatic techiciency and ensure KZ e, readability and Z,ZK	and high quality 2 usability.
18PROP The goal of this operinciples on concentration 18PW The course into	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 efficient final source code. Web environment and markup languages roduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values assists of Algorithmization	KZ e pragmatic techiciency and ensure KZ e, readability and Z,ZK	piques and high quality 2 usability.
18PROP The goal of this operinciples on concentration 18PW The course interest 18ZALG This course is	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 efficient for the final source code. Web environment and markup languages roduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values and best practices for web design with respect to technical functionality, informational values are devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	KZ e pragmatic techiciency and ensure KZ e, readability and Z,ZK the algorithm con	liques and high quality 2 usability. 4 uplexity.
18PROP The goal of this operinciples on concentration 18PW The course interest 18ZALG This course is	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 efficient for the final source code. Web environment and markup languages reduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values as devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming	KZ e pragmatic techiciency and ensure KZ e, readability and Z,ZK the algorithm con	liques and high quality 2 usability. 4 uplexity.
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18PROP The goal of this operinciples on concentrations on the second of	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 efficient for the final source code. Web environment and markup languages roduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values advoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming language.	KZ e pragmatic techniciency and ensure KZ e, readability and Z,ZK the algorithm com Z nming and with th	liques and high quality 2 usability. 4 uplexity. 4
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