Study plan

Name of study plan: Matematické inženýrství - Matematická informatika

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Mathematical Engineering 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 specialization Minimal number of credits of the block: 0 The role of the block: PS

Code of the group: BSPMIMINF1 Name of the group: BS P_MIB MINF 1st year Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 15 courses Credits in the group: 0 Note on the group: Podmínkou skládání zkoušky 01MANZ je získání zápočtu z 01MAN

Podmínkou skládání zkoušky 01MANZ je získání zápočtu z 01MAN.Podmínkou skládání zkoušky 01LALZ je získání zápočtu z 01LAL.

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
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	2	2+0	Z	PS
01DIM1	Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	z	PS
01DIM2	Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.)	Z	2	2P+0C	L	PS
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.)	Z,ZK	6	4+2	L	PS
01LAL	Linear Algebra 1 Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		PS
01LALZ	Linear Algebra 1, exam Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		PS
01LAL2	Linear Algebra 2 Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		PS
01MAN	Calculus 1 Edita Pelantová, Pavel Strachota, Miroslav Kolá Pavel Strachota Pavel Strachota (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Edita Pelantová, Pavel Strachota, Miroslav Kolá Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Edita Pelantová, Miroslav Kolá, Maksym Dreval Edita Pelantová Maksym Dreval (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics David B e Antonín Hoskovec David B e (Gar.)	Z	4	4+2	Z	PS
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David B e , Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David B e (Gar.)	ZK	2	-	Z	PS

00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	PS
18ZALG	Basics of Algorithmization Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, František Gašpar, Zuzana Pet í ková Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	PS
18ZPRO	Basics of Programming Maksym Dreval, Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, Zuzana Pet í ková, Nichita Vatamaniuc, Jan Vondruška, Miroslav Virius Miroslav Virius (Gar.)	4C	Z	PS		
Characteristics of the	ne courses of this group of Study Plan: Code=BSPMIMINF1 Nam	ne=BS P MIB	MINF 1s	t vear		
02DEF1 H	listory of Physics 1				Z	2
Physics and its place in th	e system of sciences. The relationship of man and nature. Natural sciences in ancient O	rientand Greece,	Greek natu	al philosoph	ers, Aristotl	e. Physics in
Helenistic period, Archime	d. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano	Bruno. Copernicu	s, Kepler, G	alileo, Huyg	ens. The bir	h of physics
as experimental science.	Newton and his work.					
01DIM1 [Discrete Mathematics 1				Z	2
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.					
02ELMA E	ectricity and Magnetism			Z	Z,ZK	6
Electric charge, Coulomb's	s law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectr	rics. Electric curre	nt and circu	its, conducti	vity. Basics	of the relativity
theory. Electrodynamic for	ces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits	. Electromagnetic	waves, Max	well equation	ons.	
01LAL L	inear Algebra 1				Z	2
1. Vector space. 2. Linear	dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	. 5. Linear mappin	igs. 6. Matrie	ces of linear	mappings.	7. Frobenius
theorem.						
01LALZ L	inear Algebra 1, exam				ZK	2
01LAL2 L	inear Algebra 2			Z	Z,ZK	4
Outline: 1. Inverse matrix a	and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvecto	or, diagonalization). 4. Hermiti	an and quad	Iratic forms.	5. Scalar
product and orthogonality.	6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. M	ethods for calcula	ation of inve	se matrices	. 2. Methods	of calculation
of determinants. 3. Calcula	ation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.	. 5. Scalar product	t and orthog	onality. Calc	ulation of or	thogonal
complements. 6. Geometry	y exercises and examples. 7. Adjoint operators.					
01MAN C	Calculus 1				Z	4
Basic calculus (real analys	sis, functions of one real variable, differential calculus).					
01MANZ C	Calculus 1, exam				ZK	4
01MAN2 C	Calculus 2			Z	Z,ZK	8
1. Continuation of different	ial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen	nce, operations on	series, abs	olute and co	onditional co	nvergence 3.
Real and complex power s	eries, the Cauchy-Hadamard theorem, expansion of function into power series, summati	on of infinite serie	s. 4. Theory	of integrals:	primitives, o	definite integral
(Riemann definition), tech	niques of integration and application of integrals, Generalized Riemann integral					
02MECH N	lechanics				Ζ	4
Introduction to physics, ph	ysical quantities and units. Kinematics of a particle, basic types of motion and their supe	prosition. Dynami	ics of a part	icle, solving	equations o	f motion for
one-dimensional motion, r	notion in a central force field, forces in non-inertial reference frames. Mechanics of a sys	tem of particles, t	wo-body pro	oblems, part	icle collision	s. Mechanics
of a rigid body, rotation.						
02MECHZ IN	lechanics - Examination				ZK	2
I ne content of the subject	is the examination according to the plan of studies.				<u> </u>	
00PT F	Preparatory Week				Z	2
18ZALG Basics of Algorithmization Z,ZK						
This course is devoted to a	selected algorithms and methods for algorithm design. This course intruduces selected n	nethods for the de	etermination	of the algor	ithm comple	exity.
18ZPRO E	Basics of Programming				Z	4
This course is intended ma	ainly for students with little or no experience in programming. It familiarizes the students	with the basic cor	ncepts in pro	ogramming a	and with the	Python
programming language.						

Code of the group: BSPMIMINF2

Name of the group: BS P_MIB MINF 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 10 courses 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
01TA	Algebra and Calculus in Applications Edita Pelantová, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		PS
01DIFR	Differential Equations Michal Beneš Michal Beneš (Gar.)	Z,ZK	4	2P+2C	L	PS
01DIMA3	Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		PS
01LIP	Linear Programming Jan Volec Jan Volec (Gar.)	Z,ZK	3	2+1	Z	PS

01ANA3	Mathematical Analysis A 3 František Štampach, Radek Fu ík, Mat j Tušek František Štampach František Štampach (Gar.)	Z,ZK	9	4P+4C		PS
01ANA4	Mathematical Analysis A 4 František Štampach František Štampach (Gar.)	Z,ZK	9	4P+4C		PS
01NMA1	Numerical Mathematics 1 Tomáš Oberhuber Tomáš Oberhuber (Gar.)	ZK	4	4+0		PS
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	PS
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	КZ	4	2+2	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS
Characteristics of the	courses of this group of Study Plan: Code=BSPMIMINF2 Nam	e=BS P_MIB	MINF 2	nd year		
01TA Alg	ebra and Calculus in Applications				ZK	2
We illustrate methods based	on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calle	es concrete mathe	ematics. The	eorems are m	otivated by p	roblems from
informatics and they are illust	trated on problems from informatics.					
01DIFR Diff	erential Equations			7	7K	4
The course contains introduc	tion in the solution of ordinary differential equations. It contains a survey of equation t	vnes solvable an:	alvtically ba	$\frac{1}{1}$	ristence theo	ry solution of
linear types of equations and	introduction in the theory of boundary-value problems	ypee contable and	ary trouiny, be			ry, colution of
					71/	-
01DIMA3 Dis	crete Mathematics 3				∠K	2
Students get to know problem	ns and methods of their solving from various parts of discrete mathematics. The semil	nar includes indiv	idual proble	em solving of	ones own ch	oice from the
given literature.						
01LIP Line	ear Programming			Z	,ZK	3
We study special problems a	bout constrained extremal problems for multivariable functions, where the function is I	inear and the con	straints are	given by line	ar equations	and/or linear
inequalities.						
01ANA3 Ma	thematical Analysis A 3			7	7K	9
Function sequences and seri	es introduction to topology and metric spaces differential calculus of functions of sev	eral variables			,	Ū
	thematical Analysis A 4			7	71/	0
UTANA4 IVIA	appetrained extreme, measure and integration theory, contour and surface integrals			2	,21	9
	, constrained extrema, measure and integration theory, contour and surface integrals.					
01NMA1 Nui	merical Mathematics 1			4	2K	4
The course introduces to nur	nerical methods for solving the basic problems arising from technical and research pro	oblems. The acce	nt is put on	a good unde	rstanding of	the root of
theoretical methods.						
18PRC1 Pro	gramming in C++ 1				Z	4
This course covers mainly the	e C programming language and non-object oriented features of the C++ language.					
18PRC2 Programming in C++ 2 K7 4						4
This course covers the object	t oriented programming and othesr advanced constructs in the C+;+ programming lan	guage and the St	andard Ter	nplate Library		
02VOAE Wa	ves. Optics and Atomic Physics			7	7K	6
Wave phenomena in mechan	ics and electromagnetism; modes, standing and travelling waves, wave packets indis	nersive media Wa	ave ontics.	nolarization i	,—·· nterference /	diffraction
coherence Geometrical ontic	s Introduction to quantum physics: black body radiation, quantum of energy photoeff	ect the Compton	effect the	de Broalie wa	wes the Sch	rodinger
oguation stationary states or	ad sportra of finite systems		cheol, the			ounger
equation, stationally states al	iu specira or ninite systems.					

Code of the group: BSPMIMINF3 Name of the group: BS P_MIB MINF 3rd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 12 courses 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
01ALGE	Algebra Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.)	Z,ZK	6	4+1		PS
01BPMI1	Bachelor project 1 Pavel Strachota, Václav K s, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.)	Z	5	0P+5C		PS
01BPMI2	Bachelor project 2 Pavel Strachota, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.)	Z	10	0P+10C		PS
01FKO	Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		PS
01NMA2	Numerical Mathematics 2 Michal Beneš, Tomáš Oberhuber Tomáš Oberhuber Michal Beneš (Gar.)	Z,ZK	3	2P+1C	L	PS
01PGR1	Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		PS
01PGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		PS
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	PS

18PJ	Programming in Java Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	PS
01BASE	Bachelor Seminar Pavel Strachota Pavel Strachota (Gar.)	Z	1	0P+2S		PS
01TKO	Theory of Codes Edita Pelantová, Jan Volec Edita Pelantová Jan Volec (Gar.)	ZK	2	2P+0C	L	PS
01ZAOS	Introduction to Operating Systems Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z,ZK	2	2+0	L	PS
Characteristics of the	courses of this group of Study Plan: Code=BSPMIMINF3 Nam	e=BS P_MIB	MINF 3r	d year		
01ALGE Alg	ebra			Z	,ZK	6
Firstly, the Peano axioms are	treated in detail. Elements of the set theory cover only: equivalence and subvalence, t	he Cantorov-Berr	nstein theore	em, the axio	m of choice a	nd equivalent
statements, definition of ordin	nals and cardinals. Further standard algebraic structures are addressed: semigroups,	monoids, groups,	rings, integ	ral domains,	, principal ide	al domains,
fields, lattices. Independent of	chapters are devoted to divisibility in integral domains and to finite fields.					
01BPMI1 Ba	chelor project 1				Z	5
The bachelor project is based	d on a topic approved by the administrators of the programme, department and by the d	ean. The student	is guided by	the project	supervisor du	ring common
regular meetings and discuss	sions.					
01BPMI2 Bag	chelor project 2				Z	10
The bachelor project is based	d on a topic approved by the administrators of the programme, department and by the d	ean. The student	is quided by	the project :	supervisor du	ring common
regular meetings and discuss	sions.		0 ,		•	0
01FKO Fu	octions of Complex Variable			7	' 7K	3
The course starts from outlini	ing the Jordan curve theorem and the Riemann-Stielties integral. Then basic results of c	omplex analysis i	n one variat	ole are explai	ned in detail.	the derivative
of a complex function and the	a Cauchy-Riemann equations holomorphic and analytic functions the index of a point	with respect to a	closed curv	e Cauchv's	integral theor	em Morera's
theorem roots of a holomorp	hic function, analytic continuation, isolated singularities, the maximum modulus principl	e Liouville's theor	rem the Ca	uchv estimat	es Laurents	eries residue
theorem.		0, 210001110 0 01001				01100,1001000
	merical Mathematics 2			7	' 7K	3
The course is devoted to num	perical solution of boundary-value problems and intial-boundary-value problems for ordin	nary and nartial di	fferential ec	uations It ex	nlains metho	ds converting
boundary-value problems to	initial-value problems and finite-difference methods for elliptic, parabolic and first-orde	r hyperbolic partia	al differentia	l equations		us converting
	multar Craphics 1	·		7	' 7K	2
The first part of the two-seme	inputer Oraphics i seter "Computer Graphics" course is devoted to the specifics of digital display devices s	spanning from hist	tory up to th	A state of the	.,∠N a art technolo	Z aies Eurther
a survey of fundamental probl	lems in 2D computer graphics is given together with their solutions. Focus is put on mathe	matical descriptio	n of problem	ns and evola	nation of the c	orresponding
algorithms using knowledge	previously obtained in a variety of subjects available at ENSPE. The final part of the co	ourse covers the	annlications	of computer	r graphics and	proaches in
the process of authoring scie	entific documents and presentations		approxitorio	or computer	giapinee app	
	mouter Graphics 2			7	' 7K	2
The second part of the two-s	emester "Computer Graphics" course begins with a brief introduction to signal theory	in the context of a	liacina - a l		$\cdot, \mathbf{\Delta} \mathbf{N}$	
graphics Further a well struct	ctured survey of fundamental problems in 3D computer graphics is given together with	their solutions fr	om the dee	cription of a	3D scene to	ite realistic
rendering Focus is put on ma	athematical description of problems and evplanation of the corresponding algorithms up	sina knowledae n	reviously of	tained in a v	ariety of subi	ects available
at ENSPE The algorithm imp	elementation aspect such as data structures design etc. is also a matter of concern. In	the last lecture a	number of	theoretical c	oncepts are (demonstrated
using Blender, an open-source	ce 3D modeling and rendering software instrument.	,,				
01PRST Pro	hability and Statistics			7	' 7K	4
It is a basic course of probab	ility theory and mathematical statistics. The probability theory is build gradually begins	ning with the class	sical definition	on and conti	nuina till the l	
definition. The notions as ran	dom variable, distribution function of random variable and characteristics of random va	ariable are treated	d and basic	limit theorer	ns are stated	and proved
On the basis of this theory th	e basic methods of mathematical statistics such as estimation of distribution parameter	ers and hypothesi	s testing ar	e explained.		and protoal
18P1 Drc	paramming in Java		- tooting un	7	' 7K	5
This course is devoted to the	Java platform and to the development of the basic types of applications for this platfor	rm		Z	., 21	5
	chalor Saminar				7	1
	undur udmillial r. students familiarize themsalves with the general principles of publiching and present	ing scientific work	and the for	 mal requires	-	I Pelore dograd
projects at the faculty The set	n, succents raminanze memory with the general principles of publishing and presenti	ng scientilic work	and the lor	Indi requiren	nerits ior Daci	ent state of
the research results achieved	I during the work on their projects. Each presentation is followed by a discussion on scie	entific matters as w	vell as on th	e nossihilitia	s of improving	the studente
performance	a daming the work on their projects. Each presentation is followed by a discussion on sole				o or improving	
	pary of Codes				71	2
Algebraic methods used in a	CULY UL CUUES			I ·	<u> </u>	2
	reduction to Operating Systems				77/	2
	ouuciion to Operating Systems	threaded	iono Mara		.,∠n	2
introduction to structure of op	perating systems. Processes, thread, memory management. Synchronization of multi-	inreaded applicat	ions. Memo	ry mapped f	lies.	

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: 0 Only one of these courses is obligatory.

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	Z	1	0+2	L	PV
00RET	Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová	Z	1	0+2		PV

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

Economy in Technology	Z	1
he basics of micro- and macroeconomics.		
Ethics of Science and Technology	Z	1
Rhetoric	Z	1
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
al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	n integral part of th	ne course.
Introduction to Law	Z	1
Introduction to Psychology	Z	1
	Economy in Technology he basics of micro- and macroeconomics. Ethics of Science and Technology Rhetoric n the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar Introduction to Law Introduction to Psychology	Economy in Technology Z he basics of micro- and macroeconomics. Z Ethics of Science and Technology Z Rhetoric Z n the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the composition of al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an integral part of the Introduction to Law Z Introduction to Psychology Z

Code of the group: BSPJAZYKYZK

Name of the group: BS P languages

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses 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
04XAMZK	English for Intermediate Students Examination Jana Ková ová, Slav na Brownová Jana Ková ová	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners Beginners - Examination Slav na Brownová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

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

04XAMZK English for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two plan.	arts - written (100 m	nin) and oral
(20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English of	ourses.	
04XAPZK English for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the abi	ity to apply their know	wledge obtained
in the three AP courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic fro	m the student's field	d of study.
04XCESZZK Czech for Foreigners Beginners - 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	04XCESZ1,2,3 cou	rses and can
only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XCESMZK Czech for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the	CESM1,2,3 courses	s and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the	CESP1,2,3 courses	and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XFMZK French for Intermediate Students Examination	ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the conte	nts of FM1-FM3. The	e examination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.		
04XEPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral	part and is organized	according to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.	<u>j</u>	J
04XE7ZK French for Beginners Examination	ZK	3
The contrast is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The	kamination is ruled b	v the document
Instruction for examination. Its content covers the levels FZ1 - FZ5.		,
04XNMZK German for Intermediate Students Examination	7K	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examin	ation consisting of tv	,o parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 ass	essment. More detail	ed information
is to be obtained from the teacher.		
04XNPZK German for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	tion consisting of two	o parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungr.	aded assessment. M	ore detailed
information is to be obtained from the teacher.		
04XRMZK Russian for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr	owledge and skills a	cquired in RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instr	uctions by the teache	er.
04XRPZK Russian for Advanced Students Examination	71/	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr		
	∠∧ owledge and skills a	cquired in RP1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru	owledge and skills a ctions by the teache	cquired in RP1 r.
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XR77K Russian for Beginners Examination	owledge and skills a ctions by the teache	cquired in RP1 r.
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr	owledge and skills a ctions by the teache ZK owledge and skills a	cquired in RP1 r. 3 cquired in RZ1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru	owledge and skills a ctions by the teache ZK owledge and skills a ctions by the teacher	cquired in RP1 r. 3 cquired in RZ1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination	vieldge and skills a ctions by the teache ZK owledge and skills a ctions by the teacher ZK	cquired in RP1 r. 3 cquired in RZ1 r. 4
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination		cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part.	A Characteristic state Characteri	cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination	CK	cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained 4
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination The course content is the examination as given by the study plan. Examination		cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained 4 ral part is having
 - RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru O4XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination The course content is the examination on given by the study plan. Examination 		cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained 4 ral part is having
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination 04XSPZK Spanish for Advanced Students Examination 04XSPZK Spanish for Advanced Students Examination 04XSPZK Spanish for Advanced Students Examination passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student. 04XSZZK Spanish for Beginners Examination	CK	cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained ral part is having 3
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr non-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination 04XSPZK Spanish for Advanced Students Examination 04XSZZK Spanish for Advanced Students Examination 04XSZZK Spanish for Beginners Examination 04XSZZK <t< td=""><td>CK CK CK</td><td>cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained ral part is having 3 t he/she has</td></t<>	CK	cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained ral part is having 3 t he/she has
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru 04XSMZK Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr on-graded assessment for course SM3.Oral examination follows the written part. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination 04XSPZK Spanish for Advanced Students Examination 04XSZZK Spanish for Advanced Students Examination 04XSZZK Spanish for Beginners Examination 04XSZZK Spanish for Beginners Examination 04XSZK Spanish for Beginners Examination The course content is the examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student. 04XSZZK Spanish for Beginners Examination 04XSZZK Spanis	CK CCK CK CK	cquired in RP1 r. 3 cquired in RZ1 r. 4 ill have obtained ral part is having 3 f he/she has

Name of the block: Elective courses

Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BSPMIMINFV Name of the group: BS P_MIB MINF Optional courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V

01DEM	History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
01FANA1	Functional Analysis 1 Pavel Šoví ek Pavel Šoví ek (Gar.)	Z,ZK	5	2P+2C		V
01FAN2	Functional analysis 2 Pavel Šoví ek Pavel Šoví ek (Gar)	Z,ZK	5	2P+2C		V
01JEPR	Simple Compilers	Z	2	2	L	V
04AKS	English Conversation	Z	1	0+2	L	V
00MAM1	Essentials of High School Course 1	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2	Z	1	0+1		V
18NES1	Neural Networks 1	KZ	5	2P+2C	L	V
15CH1	General Chemistry 1	Z	3	2+1	Z	V
15CH2	General Chemistry 2	Z,ZK	3	2+1	L	V
12POAL	Ond ej Holas, Petr Distier, Vaclav uba Petr Distier Petr Distier (Gar.) Computer Algebra	KZ	2	2	Z	v
01SITE1	Richard Liska Richard Liska Richard Liska (Gar.) Computer Networks 1	7	2	1+1	7	V
01SITE2	Miroslav Minárik Miroslav Minárik Miroslav Minárik (Gar.) Computer Networks 2	7	2	1+1	-	V
01000	Miroslav Minárik Miroslav Minárik Miroslav Minárik (Gar.) Principles of Statistical Decision Making	71/	2	2.0		v
UIPSR	Václav K s Václav K s Václav K s (Gar.)	2K 	2	2+0		
01PERI	Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	V
01PW	Windows Programming Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	V
18PMTL	Programming in MATLAB Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	Z	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 (Gar.)	Z	2	0+2	L	V
01SAM	Seminar of Applied Mathematics	Z	2	0P+2S		V
01SSM1	Seminar of Contemporary Mathematics 1 Mat i Tušek Edita Pelantová (Gar)	Z	2	0+2	Z	V
01SOS1	Software Semina 1 Zden k ulik Zden k ulik (Gar)	Z	2	0+2	Z	V
01SOS2	Software Seminar 2 Zden k. ulik Zden k. ulik Zden k. ulik (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
02TEF1	Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.)	Z,ZK	4	2+2	Z	V
02TEF2	Theoretical Physics 2 Petr Novotný, Filip Petrásek Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	V
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	V
18INTA	Development of internet applications Jakub Klinkovský, Dana Maierová Dana Maierová (Gar.)	KZ	4	2P+2C	L	V
18UQI	Introduction to quantum informatics Aleš Wodecki Aleš Wodecki (Gar.)	Z	3	2P	L	V
01USU	Introduction to Machine Learning Ji í Franc, Jan Flusser Ji í Franc Jan Flusser (Gar.)	Z,ZK	4	2P+2C		V
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	V
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2	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

Characteristics of the courses of this group of Study Plan: Code=BSPMIMINFV Name=BS P_MIB MINF Optional courses

	History of Physics 2	7	2			
	FIISTOLY OF FIISTICS 2	Lastricity and mag	Z			
Development of classica	Il mechanics arter Newton, Bernoulli s, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E	ectricity and mag	netism -			
electrostatics, galvanism, electrodynamics and electromagnetism, Faraday and Maxwell. I hermodynamics and its laws, statistical physics, Boltzmann. I he birth of modern quantum						
and relativistic physics,	Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutnerford and Bonr. The way to nuclear e	nergy, Elementary	particles,			
standard model. The co	icept of Nature and Universe of today.	_				
01DEM	History of Mathematics	Z	1			
The subject has the forn	n of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field	- give their talks of	on varoius topics			
from the history of math	ematics.					
01FANA1	Functional Analysis 1	Z,ZK	5			
01FAN2	Functional analysis 2	Z.ZK	5			
The course aims to pres	ent selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed	perators and the	r spectrum,			
Hilbert-Schmidt operato	rs, spectral decomposition of bounded self-adjoint operators.		. ,			
	Simple Compilers	7	2			
	Gin pice complete the simple optimizations development environments reflection	~	2			
	The definition of the second	7	4			
04AKS	English Conversation	Ζ	1			
The course will develop	the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun	ication. The stude	nt will develop			
their vocabulary for vari	bus communication situations and will master their communication strategy. They will also practise their listening skills in orde	er to better follow	and participate			
in discussions. The stud	ent will be trained to express their ideas clearly and according to current English usage, and become a more confident spear	ker.				
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			
Review of basics of high	school mathematics.					
18NES1	Neural Networks 1	K7	5			
The aim of the course "I	Pure Networks 1 is to acquaint students with basic models of artificial neural networks algorithms for their learning and o	ther related mach	ine learning			
techniques The goal is	to tach students how to apply these models and methods to solve practical tacks		ine learning			
	Concerns Champion A	7				
	General Chemistry 1		3			
The most important con	cepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic	al use are illustra	ted by examples			
solved in exercises.						
15CH2	General Chemistry 2	Z,ZK	3			
The subject is the contir	uation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Usi	ng various examp	les, the fact that			
the validity of these prin	ciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by e	examples solved			
in exercises.						
12POAL	Computer Algebra	ΚZ	2			
Lisp, representation of b	asic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetic	s, simplification, g	reatest common			
divisor, resultant, deriva	tion, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, sub	stitution and patt	ern matching,			
algebraic programming,	graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Mac	csyma, Mathemat	ca), miniproject.			
01SITE1	Computer Networks 1	7	2			
Understanding the histo	vi and present network (I AN WAN use the principles and technologies). Architecture of reference model ISO/OSI. Network	protocols practic	al exercises with			
TCP/IP communications	y and present network (Link, which, use the principles and technologies), inclinational of relations in the order of the second se	uthorities public k	ev infrastructure			
(PKI) Lise in practice N	interfet services main, tendre access, www. George adams, NAT DMZ) practical warrises, Centralia, tendre adams, tendre	erial control lines	modems)			
	erwork security - mewaris (packet miters, provies, galeways, twit, Diviz), practical exercises. (According to the miters) - the security - mewaris (packet miters), provies, galeways, twit, Diviz), practical exercises. (According to the miters) - the security - mewaris (packet miters) - the security - mewaris (packet miters), provies, galeways, twit, Diviz), practical exercises. (According to the miters) - the security - mewaris (packet miters), provies, galeways, twit, Diviz), practical exercises. (According to the miters) - the security - mewaris (packet miters), provies, galeways, twit, Diviz), practical exercises. (According to the miters) - the security - mewaris (packet miters), provies, galeways, twit, Diviz), practical exercises.					
01SITE2	Computer Networks 2	Z	2			
Understanding the histo	ry and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network	protocols, practic	al exercises with			
TCP/IP communications	Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification a	uthorities, public k	ey infrastructure			
(PKI). Use in practice. N	etwork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the s	erial control lines,	modems)			
01PSR	Principles of Statistical Decision Making	ZK	2			
The subject is devoted t	o the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual	comparisons with	respect to their			
properties and applicab	lity.					
01PERI	Programming of Peripherals Devices	Z	2			
Memory organization, in	out and output ports, computer bus, Software libraries for computer peripherals, 3D graphic libraries. Principles of peripheral	ls device drivers.	_			
01 D\\/	Windows Programming	7	2			
CIFVV Simple graphical progra	Windows Flogranining		2			
	ins to MS windows, basic equiling controls. File input and output, User defined components, dynamic type identification and					
18PMIL	Programming in MAILAB	KZ	4			
Introducing Matlab envir	onment as etticient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic and	alysis, statistics, a	Igorithmization			
and geometric represen	tation of results.					
18PW	Web environment and markup languages	KZ	2			
The course introduces s	tudents to fundamental principles and best practices for web design with respect to technical functionality, informational valu	e, readability and	usability.			
01PSL	LaTeX - Publication Instrument	Z	2			
The course is devoted to	the basics and facilities of computer typography, particularly to the system LaTeX					
01SAM	Seminar of Applied Mathematics	7	2			
1 Defectorsony and as	Seriminal Of Applied Mathematica 2 Traffic flow dynamics Dynamics of round maxament 4 Digital image processing 5		Statiatical			
1. Delectoscopy and act	Justic emission. 2. Machine learning: 3. Trancinow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. L	Dynamic pricing. C	. Statistical			
	o, source participation of the second state of the	-				
0155M1	Seminar of Contemporary Mathematics 1	Z	2			
This seminar provides a	different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic of	courses of mather	natics.			
01SOS1	Software Seminar 1	Z	2			
Java, Java Beans, Asse	mbly language programming for microprocessors Intel 80x86					
01SOS2	Software Seminar 2	Z	2			
Graphical libraries GTK	+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix li	ike operatina svst	ems, especiallv			
for Linux systems Porta	bility to Microsoft Windows.	2	,			
T\/_1	Physical Education	7	1			
TV-1			۱ ۸			
1 V-Z		۷	1			
1/-3	Physical education	Z	1			

TV-4 Physical education	Z	1				
02TEF1 Theoretical Physics 1	Z,ZK	4				
The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalis	ms as well as dife	rent approaches				
to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body						
problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is						
the first part of the course of classical theoretical physics (02TEF1, 02TEF2).						
02TEF2 Theoretical Physics 2	Z,ZK	4				
Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and classical field theory in the						
Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, elect	romagnetic radia	tion in the dipole				
approximation.						
02TER Heat and Molecular Physics	Z,ZK	4				
Thermal expansion of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyna	amic principle, ide	al and real gas,				
entropy; non-chemical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity	distribution,equip	artition theorem.				
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 con-	cepts (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	st to more advan	ced. The course				
is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript.						
18UQI Introduction to quantum informatics	Z	3				
Quantum information has been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis on a	quantum computi	ng. We discuss				
some of the most important quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with t	he requisite amou	unt of theoretical				
underpinning.						
01USU Introduction to Machine Learning	Z,ZK	4				
The aim of this course is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to t	he basic methods	s of learning with				
the teacher, cluster analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and pra-	ctical applications	. Exercises use				
Python and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical pro-	oblems.					
12UNXAP Introduction to UNIX	Z	2				
Computer and operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	ce. Hardware and	software.				
Principles of operating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working	y with files. Text ed	ditors: vi, emacs.				
Command interpreter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard	tools. Graphical	user interface				
X-windows. Computer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a c	omputer. Network	services:				
hardware sharing, mail, scp, etc. Network applications		-				
12UVP Introduction to Scientific Computing	Z	2				
Practically oriented Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with	some basic tools	s fort 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. Circuits in both stationary and harmonic stable state.	cuit analysis meth	nods for linear				
circuits include symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject's final part deals with transient effective and the subject subject is a subject	ts 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 t	hemes of logical	circuits field.				
01ZPB1 Introduction to Computer Security 1	Z	2				

Code of the group: BSPJAZYKYZAP

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

Requirement courses in the group: Credits in the group: 0 Note on the group:

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
04XAM1	English for Intermediate Students M1 Jana Ková ová	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2 Jana Ková ová	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3 Jana Ková ová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 Jana Ková ová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2 Jana Ková ová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 Jana Ková ová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	V

04XCESM1	Czech for Foreigners - Intermediate 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESM3	Czech for Foreigners - Intermediate 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP1	Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP2	Czech for Foreigners - Advanced 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V

04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z1 Z 2 Beatriz Vadillo Gonzalo (Gar.) Z 2		0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	eginners Students Z2 Z 2 C Gonzalo Beatriz Vadillo Gonzalo (Gar.)			Z	V
04XSZ3	3 Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) Z 2				L	V
04XSZ4	Spanish for Beginners Z4 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
Characteristics of the	courses of this group of Study Plan: Code=BSPJAZYKYZAP	Name=BS P j	azyky za	p		
04XAM1 Eng The course is designed for st of Reference for Languages professional oral and written extending the knowledge of g 04XAM2 Eng The AM2 course expects the	glish for Intermediate Students M1 udents who have successfully completed the full secondary school English language (CEFR). It provides an introduction into English for Specific and Academic Purposes communication situations. Thus it covers topics related to the student's life and needs grammar issues used in EAP. glish for Intermediate Students M2 student to have completed the AM1 course. It develops their skills for work with subte	course at least at (ESP, EAP), i.e., in s as well as topics echnical texts, focu	the A2 leve nto fundame of subtech	l of the Com entals of voc nical interes	Z mon Europea abulary and s t. Attention is Z cific grammar	2 in Framework ityle typical of also paid to 2 i, functions,
and lexical items typical of ES revision is included.	P and EAP (e.g., definition, existence and classification of phenomena, object description	ions). Part of the c	ourse is als	o guided wri	ting. If necess	ary, grammar
04XAM3 Eng The course develops the skills understanding of professional equivalents. The course also student's field.	glish for Intermediate Students M3 s that enable students to cope with features typical of professional style. Increasing atter I texts. Great emphasis is placed on distinguishing different levels of formal and inform includes studying abstracts and rules for writing them as well as basic rules for prepa	ention is paid to dev nal oral and writte ring and giving a s	veloping sul n communi short prese	otechnical vo cation and th ntation on a	Z cabulary and neir appropria chosen topic	2 I independent ate Czech related to the
04XAP1 Eng The course is designed for st of Reference for Languages grammar, and style typical of covers professional oral and w polite request). If necessary,	glish for Advanced Students P1 udents who have successfully completed the full secondary school English language • CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in ma written communication on topics related to the undergraduate's life and needs. It develo revision of selected grammar topics is included.	course (at least th (ESP, EAP), i.e., in thematics and phy ps skills for free pro	ne B1 level nto the func ysics, defini ofessional w	of the Comn lamentals of tions, graph vriting (writin	Z non Europear vocabulary, i descriptions, g a CV, letter	2 Tramework functions, etc). It also of application,
04XAP2 Eng The AP2 course is based on the students' needs it concer of descriptions, and, if possib The course extends the stude paragraph structure, linking, o	glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even ntrates on chosen grammar topics, but mainly intends to develop understanding of sy le, a case study). Increasing emphasis is placed on the undergraduate's independen ent's subtechnical vocabulary, and includes fundamental notions of chosen branches cohesion and coherence in texts.	with professional ntactic structures a t work with and re of science. It is foc	texts of cho and typical ading of ling cused on for	osen branch rhetorical fur guistically m rmal writing i	Z es of science nctions (e.g., ore demandii including the	2 According to various types ng materials. sentence and
04XAP3 Eng	glish for Advanced Students P3				Z	2
The AP3 course is based on a communication skills and fun also preparing a project on a communication.	AP2 and expects the student to work without any guidance with authentic professional ctions (e.g., expressing an opinion, agreement, and objections; taking part in discuss given or chosen topic and presenting it. The course places emphasis on distinguishir	materials and to ir ion, note-taking; si ng levels of formal	nterpret the ummarizing and inform	text. It incluc , writing an al language	les training or abstract) and both in oral a	al and written , if possible, nd written
04XCESZ1 Cze	ech for Foreigners - Beginners 1	practoristics of Cz	och (phono		Z	2
acquire basic language and s	speaking skills. The course focuses on pronunciation exercises, simple social phrases roughly lessons 1.3 of	, and oral and writ	tten commu	nication in th	ne most com	non everyday
04XCESZ2 Cze	ech for Foreigners - Beginners 2				Z	2
The language and communic basic communication topics.	ation competences acquired in CESZ1 are further developed. Students deepen their The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	knowledge of the	declension	and conjuga	ation system	and practise
04XCESZ3 Cze The course further develops	ech for Foreigners - Beginners 3 the language and communication competences acquired in the XCESZ1 and XCESZ	2 courses. The tea	aching focu	ses on build	Z ing up basic v	2 /ocabulary,
fixing correct pronunciation a frequent types of dialogue. Th 1.	nd deepening grammar, features through practice, as well as introducing the Czech c ney also practise understanding texts in terms of main ideas or looking for specific deta	ulture. Students an ails in texts. The co	re asked to ourse covers	produce sim roughly les	ple texts and sons 5-7 in	they practise eština expres
04XCESM1 Cze The course is focused on corr	ech for Foreigners - Intermediate 1 ect pronunciation, important morphological phenomena, prepositional phrases, and ve	erb forms as well a	s on extend	ing the stude	Z ent´s vocabula	2 ary for various
04XCESM2 Cze The course develops the topi in understanding common ab	ech for Foreigners - Intermediate 2 cs covered in CESM1 and is then focused on more difficult grammar phenomena. It p breviations, abbreviated words, and mathematical terms and formulas.	practices writing, s	peaking, ar	d reading sl	Z	2 s the student
04XCESM3 Cze The last course revises morp lexicology and on developing	ech for Foreigners - Intermediate 3 hological topics covered earlier and extends the student's knowledge of more difficul the student's writing skills.	t language phenor	mena. It is e	especially for	Z cused on styl	2 stics and
04XCESP1 Cze The prerequisite of the course It is focused partly on revision basics of functional style of e includes communication with	ech for Foreign Students - Advanced 1 e is very good knowledge of the Czech language, i.e., communicative competences at n of standard language structures, but mainly on practising more complex grammatic ngineering and professional communication, both in spoken and written form. The top teachers and faculty administrators.	least at level B2 of al structures typica ics include Univer	f the Comm al of the styl rsity Studies	on Europear e of science and Studer	Z n Framework e. Students ar nt Life. Writter	2 of Reference. e taught the n practice

04XCESP2 Czech for Foreigners - Advanced 2 This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a	Z and specialist texts	2 s placing greater
emphasis on individual work.		placing groater
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 presentation student's project. Writing skills necessary for professional communication are trained.	on, and, finally, pre	esentation of the
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in bo	oth written and ora	I form. Students
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr	ransmit general ar	nd technical
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy skills gained in previous study. The following topics are covered. University studies in our country and in France, writing of transactional letters. CV pe	ystemizes and exp irsonal statement	request answer
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work	based on these to	exts.
04XFM2 French for Intermediate Students M2	Z	2
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	texts, features typ	oical for technical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sci	ence and technolo	ogy, French
0/XEM3 Erench for Intermediate Students M3	7	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (🔶 subordinate and i	nfinitive clauses,
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c	lass. The paper is	linked to the
field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	vork compiled from	n French articles
and one s own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and Control of the examination are prepared. Text structure, cohesion and Control of the examination are prepared. Text structure, cohesion and Control of the examination are prepared.	coherence.	2
U4XEP1 FIGURE OF ADVANCED STUDENTS P1 EP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both w	∣ ∠ ∣ ritten and oral forr	Z m Students will
be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gen	eral and technical	information and
to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re-	epeated and expa	nded: subjonctif,
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactiona	al letters, CV, pers	sonal statement,
request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top	ics of specializatio	on: mathematics,
04XFP2 French for Advanced Students P2	7	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	n given topics. Fe	atures typical of
technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3 French for Advanded Students P3	Z	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	engineering envir	ronment. Special
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.	vers a tecrinical /a	ipplied science
04XFZ1 French for Beginners Z1	Z	2
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in s	Z socializing and in	2 professional life.
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to communicate in French orally and in writing in situations of everyday life, in the course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to	Z socializing and in e to communicate	2 professional life. at elementary
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in a The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francoursting pro za, áte, ky) It is extended with situations of communication and functions from the textbook Esnaces I. Jessons 1.4 - introductions	Z socializing and in e to communicate ová, French for be	2 professional life. at elementary eginners
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in a The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation	Z socializing and in e to communicate ová, French for be , personal informa tion and grammar.	2 professional life. at elementary eginners ation, asking and
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in a The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation 04XFZ2	Z socializing and in e to communicate ová, French for be , personal information and grammar. Z	2 professional life. at elementary eginners ation, asking and 2
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in a The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncial 04XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the course is linking up with FZ1.	Z socializing and in e to communicate ová, French for be , personal informa tion and grammar. Z the textbook: Prav	2 professional life. at elementary eginners ation, asking and 2 rda - Pravdová :
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation 04XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of French for Beginners and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem	Z socializing and in e to communicate ová, French for be , personal informa tion and grammar. Z the textbook: Prav ent - disagreemer	2 professional life. at elementary eginners ation, asking and
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in 3 The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat O4XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of 5 French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	Z socializing and in e to communicate ová, French for be , personal information and grammar. Z the textbook: Prav ent - disagreemer nunication. Specific	2 professional life. at elementary eginners ation, asking and
04XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in 3 The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat 04XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm How does the machine work? A few expressions concerning the study. Name of University and Faculty. 04XFZ3 French for Beginners Z3	Z socializing and in e to communicate ová, French for be , personal informa- tion and grammar. Z the textbook: Prav ent - disagreemer nunication. Specific	2 professional life. at elementary eginners ation, asking and 2 vda - Pravdová : nt, apology, c topics covered: 2
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O4XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able tevel, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdu (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces 1, lessons 1.4 : introductions giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncial 04XFZ2 Therench for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of 15 french for Beginners Z3 The course builts upon FZ2. Basic linguistic knowledge and skills are fulled in from the textbook Espaces 1, lesson 1 - 5 (introductions, invitation, welcoming, agreem thanking, traveling, map of France, food, appression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commute we does the machine work? A few expression of will, wish, order, prohibition, pleasure). Correct pronunciation is dialogues and on reading, both for ir pronic, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for ir protise, nunciation and reading skills are practiced. The clessons 19 - 23 of the textbook French for Beginners Z4 The course builds up on FZ3. Basic linguistic knowledge and skills are further developed	Z socializing and in e to communicate ová, French for be , personal informa- tion and grammar. Z the textbook: Prav ent - disagreemer nunication. Specific Z Pravdová: French in formation and lou contents is roughly cture notes French pping, weather, ur Z y present it orally Topics: on physics auses, typical con d car technology e matically revises of Z	2 professional life. at elementary eginners ation, asking and 2 rda - Pravdová : nt, apology, c topics covered: 2 for Beginners. ud as part of 2 y covered with n for Engineering niversity in our 2 in the class. The form lecture njunctions, 2 logy and society, tc. Students ther grammatical 2
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O4XFZ1 French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in the course includes French for specific / technical communication and reading of popular science and scientific texts. F21 The objective is to be able level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdi (Francouzština pro za åte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1 - 4 : introductions of the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat 04XFZ2 French for Beginners Z The course is linking up with F21. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of French for Beginners Additional topics and skills are filted in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem thanking, travelling, map of France, food, expressions concerning the study. Name of University and Faculty. O4XFZ3 French for Beginners Z3 The course builts upon F22. Basic linguistic knowledge and skills are fulled stricts, and later popular science texts. O4XFZ4 French for Beginners Z4 Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for ir pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. O4XFZ4 Frenc	Z socializing and in e to communicate ová, French for be , personal informa- tion and grammar. Z the textbook: Prav- ent - disagreemer nunication. Specific Z Pravdová: French formation and lou Z contents is roughly cture notes French pping, weather, un Z y present it orally Topics: on physics auses, typical con d car technology e matically revises of Z d structures (e.g. 1 blic and Germany, ts, and the fundan	2 professional life. at elementary eginners attion, asking and 2 vda - Pravdová : nt, apology, c topics covered: 2 for Beginners. ud as part of 2 y covered with n for Engineering niversity in our 2 in the class. The s from lecture junctions, 2 logy and society, tc. Students ther grammatical 2 the passive) and , current nentals of IT

04XNM3 German for Intermediate Students M3	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the r	elation between techno	logy and society,
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computer	rs and car technology e	tc. Students
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course s	systematically revises of	ther grammatical
phenomena important for professional discourse (participles, relative clauses).		-
U4XNP1 German for Advanced Students P1	be lovelled off at the b	2 aginning of the
course The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading, techniques)	ng for detail) It revises	and develops
more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focus	es on practical everyday	communication,
i.e., telephoning.		,
04XNP2 German for Advanced Students P2	Z	2
The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while	extending their general	and subtechnical
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding	ng and practising formal	communication,
both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect species (i.e., subjunctive, indirect species).	ech).	-
U4XINP3 German Ior Advanced Students P3	in a variaty of loss com	Z mon situations
(traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts.	the vocabulary range i	n fields such as
nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts ar	e used. By means of a	presentation,
students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral for	rm. The course also inc	ludes translation
practice to and from German.		
04XRM1 Russian for Intermediate Students M1	Z	2
The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian a	alphabet (both printed a	nd handwritten),
basic vocabulary for communication in everyday situations (introductions, socializing, greetings, snopping for food and objects of everyday need	1, asking the way and g	iving directions),
contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable		Jourse. The
04XRM2 Russian for Intermediate Students M2	7	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 timetab	ble.	2
04XRM3 Russian for Intermediate Students M3	Z	2
The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of R	Z5, however, for half of	the time allotted
in the timetable.		
04XRP1 Russian for Advanced Students P1	Z	2
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structure	es, practicing more diffi	cult grammar
structures, understanding the fundamentals of technical language and training writing skills.		2
04XRP2 Russian for Advanced Students P2		2 aifia avertantia
structures). Stress is put on independent oral and written communication	sives, verb aspects, spe	Sinc Synactic
04XRP3 Russian for Advanced Students P3	7	2
The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written para	aphrasing, translation).	_ The RP1 - RP3
courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situat	ions). The courses deve	elop and expand
these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, or	al and written interpreta	tion). Students
develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak	write accurately and wit	th confidence on
technical topics.	7	2
U4XRZ I RUSSIAN IOF BEGINNERS Z I	Russian Thus it begin	Z s with mastering
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and	speaking). Students wil	be able to read
a short text with marked stress, understand its contents and summarize it.	······································	
04XRZ2 Russian for Beginners Z2	Z	2
The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and sh	ort subtechnical texts.	Students will be
able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. The	y will also develop their	vocabulary and
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		2
04XRZ3 Russian for Beginners Z3	<u> </u>	2
I ne course is based on RZZ and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (to and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They	or training various forms	so as to be
understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.		30 43 10 50
04XR74 Russian for Beginners 74	7	2
The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text	s with a certain percent	age of unfamiliar
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregul	ar verbs, differences in	verb patterns
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free t	ime), and practice oral	and written
communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data to the second sec	ita (e.g., Siberia), learn	how to fill in
OAXD25	7	2
U4AR20 RUSSIGITIOL DEGITIELS 20	erstanding extracting a	
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the text	xts. Communication ski	Is are trained on
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional commun	ication (verbal adjective	es, participles,
passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite	request, etc.)	
04XSM1 Spanish for Intermediate Students M1	Z	2
The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3	semester course devel	ops standard
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns,	negative form of the in	perative, and
Spanish for Intermediate Students M2		י. ס
The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanic	sh for specific purposes	\leq
The second with a standard in the later and the later and the provide course (own), standard are gradually acquainted with fundamental so open a		

04XSM3	Spanish for Intermediate Students M3	Z	2			
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent						
enough to use the Inter	net in Spanish and search for information of their specialization or field of interest. Students will use the information to write s	hort articles and	summaries. The			
final part of the program	nme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.					
04XSP1	Spanish for Advanced Students P1	Z	2			
Course concentrates or	more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communicati	on. Course prerec	quisites: level B2			
of CEFR.						
04XSP2	Spanish for Advanced Students P2	Z	2			
Course SP2 is the seco	nd part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and sy	ntax and focuses	on independent			
written communication.						
04XSP3	Spanish for Advanced Students P3	Z	2			
Course SP3 is the final	part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	ocused on writter	o communication			
based on what students	s will need in their career.					
04XSZ1	Spanish for Beginners Z1	Z	2			
Course SZ1 is the first s	stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundar	iental grammar st	ructures and will			
be able to communicate	e at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish a	nd will develop it.				
04XSZ2	Spanish for Beginners Students Z2	Z	2			
Course SZ2 is based or	ocurse SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and le	exis will be choser	n so as to enable			
them to understand sho	rt adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and ot	hers such as the	Czech Republic.			
Realia of Spanish-spea	king 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	f the Spanish-spe	aking countries,			
mainly of Spain. It pays	attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	e). It includes writ	ten and oral			
communication on a give	ren 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 Spanic	sh speaking coun	tries, mainly of			
Spain. It pays attention	to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of t	the imperative, an	d subjunctive),			
to written and oral com	nunication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.					
04XSZ5	Spanish for Beginners Z5	Z	2			
The course books are s	upplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish	1 for specific purp	oses. In its final			
part, the general Spanis	sh 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
	Review of basics of high school mathematics.		
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focu	used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of put	blic speech
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	integral part of the	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ALGE	Algebra	Z,ZK	6
Firstly, the Peano a	xioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the	axiom of choice an	d equivalent
statements, definit	tion of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral dor	nains, principal idea	al domains,
	fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.	1	
01ANA3	Mathematical Analysis A 3	Z,ZK	9
	Function sequences and series, introduction to topology and metric spaces, differential calculus of functions of several variat	oles.	
01ANA4	Mathematical Analysis A 4	Z,ZK	9
	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.		
01BASE	Bachelor Seminar	Z	1
In the first part of th	e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	uirements for bache	elors degree
projects at the fac	ulty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral prese	ntations of the curr	ent state of
the research result	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.	ilities of improving	the students
01BPMI1	Bachelor project 1	Z	5
The bachelor proje	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the pro	ject supervisor dur	ing common
	regular meetings and discussions.		

		1	1
01BPMI2 The bachelor project	Bachelor project 2 ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the pro	Z ject supervisor du	10 ring common
	regular meetings and discussions.		
01DEM	History of Mathematics	Z Z	1 aroius topics
	from the history of mathematics		
		7 71/	-
UIDIFR	Differential Equations	Z,ZK	4
The course contain	s introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the	he existence theor	ry, solution of
	linear types of equations and introduction in the theory of boundary-value problems.		
01DIM1	Discrete Mathematics 1	Z	2
	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	Į.	ļ
	Discrete Mathematics 2	7	2
			2
	The seminar is devoted to recurrence relations. It includes individual problem solving.		
01DIMA3	Discrete Mathematics 3	ZK	2
Students get to kno	w problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solvin	ng of ones own cho	oice from the
	given literature.		
	Eurocional analysis 2	7.74	Б
	i incluina analysis 2.		
The course aims	to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of	perators and their	spectrum,
	Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.		
01FANA1	Functional Analysis 1	Z,ZK	5
	Functions of Complex Variable	7 7K	3
		∠,∠l∖ volciocalio dotoilut	
The course starts if		xpiaineu in uetail. t	
of a complex function	on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauch	hy's integral theore	em, Morera's
theorem, roots of a	holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy est	timates, Laurent se	eries, residue
	theorem.		
01JEPR	Simple Compilers	Z	2
	Lexical and syntax analysis code generation simple optimizations development environments reflection	-	-
		7	0
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2	. Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of I	linear mappings. 7	'. Frobenius
	theorem.		
01LAL2	Linear Algebra 2	7 7K	4
Outline: 1 Invers	e matrix and operator. 2. Permutation and determinant 3. Spectral theory (eigenvalue, eigenvalue, eigenvalue). A Hermitian an	d quadratic forms	5 Scalar
	se mains and operator. 2. reminitation and determinant 3. Operation (eigenvalue, eigenvecus, diagonalization), 4. reminitaria		f a standar
product and orthog	onaity. 6. Metric geometry, 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matrix	rices. 2. Methods c	of calculation
of determinants.	3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form, 5. Scalar product and orthogonali	ty. Calculation of c	orthogonal
	complements. 6. Geometry exercises and examples. 7. Adjoint operators.		
011 ALZ	Linear Algebra 1, evam	71/	
		<u>∠n</u>	2
011 IP		2K 77K	2
01LIP	Linear Ageora 1, examine Linear Programming	ZK Z,ZK	2 3
01LIP We study special p	Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by	ZR Z,ZK y linear equations	2 3 and/or linear
01LIP We study special p	Linear Argebra 1, example Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.	ZR Z,ZK y linear equations	2 3 and/or linear
01LIP We study special pi 01MAN	Linear Argeora 1, example Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities. Calculus 1	ZR Z,ZK y linear equations	2 3 and/or linear 4
01LIP We study special pr 01MAN	Linear Argebra 1, example Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities. Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).	Z,ZK y linear equations	2 3 and/or linear 4
01LIP We study special pr 01MAN	Linear Argebra 1, example Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities. Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).	Z,ZK y linear equations	2 3 and/or linear 4
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01LIP We study special pr 01MAN 01MAN2 1. Continuation of 0 Real and complex p 01MANZ 01NMA1 The course introd 01NMA2 The course is devot bounc 01PERI Memory or 01PGR1 The first part of the a survey of fundame algorithms using k 01PGR2 The second part of graphics. Further, rendering. Focus is at FNSPE. The algo 01PRST It is a basic course definition. The notic On the	Linear Programming roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities. Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus). Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an sower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral Calculus 1, exam Numerical Mathematics 1 uces to numerical methods for solving the basic problems and initial-boundary-value problems. The accent is put on a good theoretical methods. Numerical Mathematics 2 ed to numerical solution of boundary-value problems and finite-difference methods for celliptic, parabolic and first-order hyperbolic partial differential equations. theoretical methods. Numerical Mathematics 1 uces to numerical solution of boundary-value problems and finite-difference methods for celliptic, parabolic and first-order hyperbolic partial differential equations. theoretical methods for celliptic, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of perip Computer Graphics 1 two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of netal problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and envientific documents and presentations. Computer Graphics 2 f the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenon a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the descriptior put on mathematic	Z,ZK y linear equations Z,ZK nd conditional con rals: primitives, de Z,ZK d understanding of Z,ZK d understanding of Z,ZK of the art technology xplanation of the con- pherals device drive Z,ZK of the art technology xplanation of the con- puter graphics ap Z,ZK menon ubiquitous in n of a 3D scene to n a variety of subject cal concepts are do Z,ZK continuing till the eorems are stated ing are explained.	2 3 and/or linear 4 8 vergence 3. finite integral 4 4 4 5 4 4 3 3 4 4 4 4 5 2 2 3 2 2 3 2 3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 Kolmogorov and proved.
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01PSR	Principles of Statistical Decision Making	ZK	2
The subject is devo	ted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual con	mparisons with res	pect to their
	properties and applicability.		-
01PW	Windows Programming		2
Simple	graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identifical	tion and reflection.	-
01SAM	Seminar of Applied Mathematics		2
1. Defectoscopy	and acoustic emission. 2. Machine learning. 3. Irattic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. D	ynamic pricing. 6.3	Statistical
	predictions in economics, sociology and psychology. 7. Application of random matrix theory.	7	0
	Computer Networks I history and present network /LAN, WAN, use the principles and technological. Architecture of reference model ISO/OSI. Network pre-	L C	
TCP/IP communica	thistory and present network (LAN, WAN, use the principles and technologies). Architecture of reference model 150/051, Network pro	orities public key in	frastructure
(PKI). Use in pr	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises, (According to the interest - the se	erial control lines. r	nodems)
01SITE2	Computer Networks 2	7	2
Understanding the	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro	tocols, practical ex	ercises with
TCP/IP communica	ations. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth	orities, public key ir	frastructure
(PKI). Use in pr	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se	erial control lines, r	nodems)
01SOS1	Software Seminar 1	Z	2
	Java, Java Beans, Assembly language programming for microprocessors Intel 80x86		
01SOS2	Software Seminar 2	Z	2
Graphical libraries	GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like	operating systems	, especially
	for Linux systems. Portability to Microsoft Windows.		
01SSM1	Seminar of Contemporary Mathematics 1	Z	2
This seminar	provides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic	courses of mathe	matics.
01TA	Algebra and Calculus in Applications	ZK	2
We illustrate metho	ds based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems a	re motivated by pro	oblems from
	informatics and they are illustrated on problems from informatics.		
01TKO	Theory of Codes	ZK	2
	Algebraic methods used in error detecting and error correcting codes.		
01USU	Introduction to Machine Learning	Z,ZK	4
The aim of this cou	rse is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the l	basic methods of le	earning with
the teacher, cluste	r analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practic	ai applications. Ex	ercises use
017409			2
Introduc	IIII UUUCIUII IU OPEIAIIII Systems tion to structure of operating systems. Processes, thread, memory management, Synchronization of multi-threaded applications. Me	∣ ∠,∠N mory manned files	2
017081	Introduction to Computer Security 1	7	. 2
	History of Daysion 1	7	2
UZDEF I Physics and its pl		C Sophers Aristotle	Z Physics in
Helenistic period	Archimed Arabic science, European science in Middle Ages Renaissance - da Vinci, Giordano Bruno, Copernicus, Kepler, Galileo F	Huvgens The birth	of physics
	as experimental science. Newton and his work.		0. p j 0. 00
02DEF2	History of Physics 2	7	2
Development of	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E	lectricity and mag	netism -
electrostatics, gal	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.	The birth of moder	n quantum
and relativistic p	hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er	nergy, Elementary	particles,
	standard model. The concept of Nature and Universe of today.		
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Co	pulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conc	luctivity. Basics of	the relativity
theory.	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, I	Maxwell equations	
02MECH	Mechanics		4
Introduction to pr	ivsics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	lving equations of	Mochanica
	nouon, mouon in a central force field, forces in non-merital reference frames. Mechanics of a system of particles, two-body problems,	particle collisions.	mechanics
	Mochanics Examination	71	2
	The content of the subject is the examination according to the plan of studies		2
	Theoretical Physics 1	7 7K	4
The course is an in	Incorduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms	as well as diferent	annroaches
to description of	dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary	v examples like the	e two-body
problem, the moti	on of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles	of mechanics. The	subject is
	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		
02TEF2	Theoretical Physics 2	Z,ZK	4
Tensors and trar	sformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and	d classical field the	ory in the
Minkowski space-ti	me. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electron	nagnetic radiation i	in the dipole
	approximation.		1
02TER	Heat and Molecular Physics	Z,ZK	4
Thermal expansion	n or materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynami	c principle, ideal a	nd real gas,
entropy; non-chem	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dist	ripution,equipartiti	on theorem.
	vvaves, Optics and Atomic Physics	L,ZK	diffrontion
coherence Goo	a in mechanics and electromagnetism, modes, standing and naveling waves, wave packets indispersive media, wave optics: polariza metrical optics, introduction to quantum physics; black body radiation, quantum of energy, photoeffect, the Compton offset, the do Pro	nion, interierence, adie waves the Sol	umaction, hrodinger
Generence. Geo	autoin states of autoin devision states and sports of faits existing	gile waves, the SU	nounger

04AKS	English Conversation	Z	1
The course will de	evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication	ation. The student v	vill develop
their vocabulary for	or various communication situations and will master their communication strategy. They will also practise their listening skills in order t	o better follow and	participate
in c	liscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more cor	fident speaker.	
04XAM1	English for Intermediate Students M1	Z	2
The course is desi	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	ommon European	Framework
of Reference for La	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of	vocabulary and sty	le typical of
professional oral	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical int	erest. Attention is a	also paid to
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
The AM2 course	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more or	specific grammar,	functions,
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	writing. If necessal	ry, grammar
0424M2	English for Intermodicto Studente M2	7	2
	English for Internetiate Students M3	<u> </u>	
understanding o	f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	and their appropria	ate Czech
equivalents. The c	protectional toxics or out on practice is practice of practice of a stating and form to to be of rolling and an information of a short presentation of presentation of the stating and giving a short presentation o	n a chosen topic re	elated to the
	student's field.		
04ΧΑΜΖΚ	English for Intermediate Students Examination	7K	4
The course cont	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts	- written (100 min) and oral
(20-	30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three f	English courses.	,
04XAP1	English for Advanced Students P1	7	2
The course is des	ined for students who have successfully completed the full secondary school Endish language course (at least the B1 level of the C	ommon European	Framework
of Reference for	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP). i.e., into the fundamen	tals of vocabularv.	functions.
grammar, and sty	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g	raph descriptions, e	etc). It also
covers professiona	I oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w	riting a CV, letter of	application,
	polite request). If necessary, revision of selected grammar topics is included.		
04XAP2	English for Advanced Students P2	Z	2
The AP2 course is	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen bra	nches of science. A	According to
the students' need	Is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica	I functions (e.g., va	arious types
of descriptions, ar	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical	ly more demanding	g materials.
The course extend	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writ	ing including the se	entence and
	paragraph structure, linking, cohesion and coherence in texts.		
04XAP3	English for Advanced Students P3	Z	2
The AP3 course is	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	cludes training oral	and written
communication sl	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	g 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 lang	uage both in oral a	nd written
		71/	
04XAPZK	English for Advanced Students Examination	<u>ZK</u>	4
in the three AD	t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a	apply their knowled	ge obtained
	Courses. The examination consists of 2 parts - whiten (100 min) and oral (50 min) and includes also oral presentation of a topic from		or study.
	UZECN TOF FOREIGNERS - Intermediate I	L Z	
	sed on contest pronunciation, important morphological prenomena, prepositional prinases, and verb forms as well as on extending the s	ludent s vocabular	y ior various
	Crach for Earnigners Intermediate 2	7	2
	CZECITIOL FOLEIGHES - Intermetable Z	C	tho student
	by the topics covered in CE-Sint and is then hocused on more dimensional prenomena, it practices writing, speaking, and reading in understanding common abbreviations, abbreviated words, and mathematical terms and formulas	iy skills and trains	
04YCESM2	Czach for Earnignore Intermediate 3	7	2
	CZECTION FOR ENGINES - INTERINECTATE S	L C C C C C C C C C C C C C C C C C C C	L istics and
	levises morphological topics covered earlier and extends the student's movieuge of more dimicult language phenomena. It is especial levicology and on developing the student's writing skills	ally locused off styl	istics and
04XCESM7K	Czech for Intermediate Students Examination	71	1
	It 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	M1.2.3 courses an	d can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher	.,_,2 0001000 un	
04XCESP1	Czech for Foreign Students - Advanced 1	7	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 Common Furg	ا بے Dean Framework of	Reference.
It is focused partly	/ on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sci	ence. Students are	taught the
basics of functio	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S	Student Life. Writter	n practice
	includes communication with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	specialist texts place	cing greater
	emphasis on individual work.		
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
The course develo	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	and, finally, present	tation of the
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course conte	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	P1,2,3 courses an	d can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
The course is desi	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features) a	and they will
acquire basic lang	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	in the most commo	on everyday
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.		

		r	1
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
The language and	communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and co	, njugation system	and practise
00	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	, , ,	·
04100000		-	0
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
The course furthe	er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	building up basic	vocabulary,
fixing correct pronu	unciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce	simple texts and	they practise
frequent types of d	ialoque. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	lessons 5-7 in	eština expres
- 1	1		
	One of the Exercise on Device strengther	71/	4
04XCESZZK	Czech for Foreigners Beginners - Examination	ZK	4
The course conte	ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	CESZ1,2,3 cours	ses and can
	only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XFM1	French for Intermediate Students M1	7	2
French - intermedi	1 enter the objective of this three-semester course is to improve and further develop communication in the French language in both to	vritten and oral fo	rm Students
	are norme objective of this three-semester course is to improve and runnie develop commincation in the renormaliguage in both		
will be able to co	ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra-	ansmit general an	d technical
information and to	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	emizes and expar	nds language
skills gained in prev	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, person	nal statement, rec	quest, answer
to an advert,	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo	ork based on thes	e texts.
04XFM2	French for Intermediate Students M2	7	2
Course EM2 builde	an EMA Linguistic structures and competence convicted in providue study are systemized and expanded. Booding peopler acience tax	<u>~</u>	
Course Fiviz builds	on PMT. Eingüistic structures and competence acquired in previous study are systemized and expanded. Reading popular science tex	is, leatures typica	
and scientific lar	nguage (passives, nominalization, word formation). lopics: physics, power engineering, environment, internet, success of French scie	nce and technolo	gy, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	7	2
The course is focus	I seed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub	ordinate and infin	itive clauses
norticiple structu		on The pener is li	intro clauses,
participie structui	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cla	ss. The paper is it	Inked to the
field of students' fu	tture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work	compiled from Fi	rench articles
and one	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	ion and coherence	e.
04XFMZK	French for Intermediate Students Examination	7K	4
The content is the	a examination as given by the study programme. The whole Erench programme is and with an examination covering the contents of	f EM1 EM2 Tho	vamination
	e examination as given by the study programme. The whole rener programme is ended with an examination covering the contents of		Examination
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the well	D.	
04XFP1	French for Advanced Students P1	Z	2
FP advanced cour	, se The objective of this three-semester course is to improve and further develop communication in the French language in both writte	en and oral form.	Students will
be able to commun	nicate in social interaction and in academic scientific and work environment. They will be able to use the language to transmit general	and technical inf	ormation and
to solve problems	EPI The course hulde on and further develops inquisit competence acquired at secondary school. Difficult arammet topics are read	ated and expande	ad: subionctif
	The following builds on and further develops inguistic competence acquired at secondary school. Dimout granniar topics are repe		
passe compose-in	iparrait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le	etters, Cv, person	al statement,
request, answer to	an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics	of coocialization.	
		or specialization.	mathematics,
	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation	n.	mathematics,
04XFP2	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2	n.	
04XFP2 With the link to P1	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Eccus is put on reading popular science texts and on oral communication on g	n. Z	2
04XFP2 With the link to P1	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (assistor veice, pomipalization, word formation)	n. Z iven topics. Featu	2 Ires typical of
04XFP2 With the link to P1	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation).	n. Z iven topics. Featu	2 Irres typical of
04XFP2 With the link to P1 04XFP3	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3	iven topics. Featu	rres typical of
04XFP2 With the link to P1 04XFP3 The course is focus	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng	iven topics. Feature	res typical of 2 2 2 2 2 2 ment. Special
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover	iven topics. Feature Z gineering environi s a technical /app	2 Ires typical of 2 ment. Special blied science
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.	iven topics. Feature Z iven topics. Feature Z gineering environi s a technical /app	2 irres typical of 2 ment. Special blied science
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French Sources. Preparation of several set topics for oral examination.	iven topics. Featu Z gineering environi s a technical /app	2 ures typical of 2 ment. Special lied science
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in engl of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. French for Advanced Students Examination	iven topics. Feature Z gineering environi s a technical /app	2 rres typical of 2 ment. Special blied science 4
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o 04XFPZK The whole Frenct	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in engl of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. French for Advanced Students Examination n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a	iven topics. Featu Z gineering environi s a technical /app ZK and is organized a	according to
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o 04XFP2K The whole Frenct	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanced Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in engl f shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. French for Advanced Students Examination n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr	iven topics. Feature iven topics. Feature gineering environi s a technical /app ZK and is organized a ading.	2 rres typical of 2 ment. Special blied science 4 according to
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o 04XFPZK The whole Frenct 04XF71	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. French for Advanced Students Examination n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr	iven topics. Feature iven topics. Feature gineering environi is a technical /app ZK and is organized a ading.	A Contract of the second sec
04XFP2 With the link to P1 04XFP3 The course is focus skill - translation o 04XFPZK The whole Frenct 04XFZ1 French for beginne	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation French for Advanced Students P2 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. French for Advanced Students Examination n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr French for Beginners Z1 rs. The objective of this 5-lavel course is to be able to communicate in Erench orally and in writing in situations of event/av life, in sec	iven topics. Feature iven topics. Feature gineering environi is a technical /app ZK and is organized a ading. Z	Particle and the second s
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The objective of the	e course is to rever on the students skins in the German ranguage. The course rocuses on revision of more dimicul phenomena and st	blic and Cormony	assive) and
word formation	processes (e.g. importance of vero prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	blic and Germany,	
environmental is	sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	, and the fundamer	itals of 11
	terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders	tandability.	
04XNM2	German for Intermediate Students M2	Z	2
The course introdu	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	tween technology a	and society,
the world at the l	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and d	car technology etc.	Students
practise reading for	r information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati	cally revises other g	rammatical
	phenomena important for professional discourse (participles, relative clauses).		
04XNM3	German for Intermediate Students M3	Z	2
The course introdu	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	ہ tween technoloay ;	and society.
the world at the l	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and o	car technology etc.	Students
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati	cally revises other c	rammatical
practice reading for	phenomena important for professional discourse (participles, relative clauses)	sany reflece carel g	, anna a cai
	Company for Intermediate Students Examination	71/	4
	German for mermediate Students Examination		4
The course conten	t is the examination as given by the study plan. The whole German for intermediate Students Course is completed by an examination of	onsisting of two pa	rts - written
and oral, which co	wer the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessme	ent. More detailed in	nformation
	is to be obtained from the teacher.	·	
04XNP1	German for Advanced Students P1	Z	2
This course requi	res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level	led off at the begin	ning of the
course. The cours	se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for de	etail). It revises and	l develops
more difficult gramr	nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on prac	ctical everyday com	munication,
	i.e., telephoning.		
04XNP2	German for Advanced Students P2	7	2
The course develor	s the students' skills in working with professional scientific texts (understanding summarising note-taking interpreting) while extending	their general and s	ubtechnical
vocabulary range	t introduces mathematical expressions and texts of nuclear nower engineering. Increasing emphasis is barred on understanding and nr	actising formal com	munication
h	the subscription of the su	rect speech)	namoaton,
	on which and our low, reter of application, interview, soriolarising, and more compres granination structures (i.e., subjancitie, interview, soriolarising), and more compres granination structures (i.e., subjancitie, interview, soriolarising).		
U4XNP3	German for Advanced Students P3	Z	2
The course consis	sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie	ty of less common	situations
(traffic problems a	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	bulary range in fiel	ds such as
nuclear power er	igineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.	By means of a pres	sentation,
students are traine	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c	ourse also includes	s translation
	practice to and from German.		
04XNPZK	German for Advanced Students Examination	ZK	4
The course conter	t is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination o	onsisting of two par	rts - written
and oral, which o	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded	assessment. More	e detailed
	information is to be obtained from the teacher.		
04XRM1	Russian for Intermediate Students M1	7	2
The course is desir	pred for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and h	andwritten)
hasic vocabulary fo	gree to students win previous introduces on russian non secondary schools, orderins are supposed to introduce a spinal aprilater (the way and giving	diractions)
basic vocabulary ic	in communication in every day studions (introductions, socializing, greenings, shopping to rood and objects or every day need, asking	and way and giving	
they can use ba	sic grammar structures (verbal and nominal norms, inegular verbs, pronouris). The initial knowledge corresponds to the achievement i		uise. The
	contents and scope of the course correspond approximately to the R23 course, but for hair of the time allotted in the timetab	le.	
04XRM2	Russian for Intermediate Students M2	Z	2
-	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	e timetable.	
04XRM3	Russian for Intermediate Students M3	Z	2
The course develop	, ps the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe	ver, for half of the t	ime allotted
	in the timetable.		
04XRM7K	Russian for Intermediate Students Examination	7K	4
The course conter	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	de and skills acqui	red in RM1
- RM3 Stud	and an examination a group of the easy plant the easier of earlier of a successful written examination. Students are given inst	ructions by the tear	her
	ends are engine to the oral examination only are a propisor from and a decession which examination. Order to are given inst		0
U4XRP1	Russian for Advanced Students PT	Z	2
I ne entrance req	jurement for the course is to achieve the BTCEFR level. The objective of the course is revision of standard language structures, prac	ticing more difficult	grammar
	structures, understanding the fundamentals of technical language and training writing skills.	r	
04XRP2	Russian for Advanced Students P2	Z	2
The course is bas	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	rb aspects, specific	c syntactic
	structures). Stress is put on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
The course is bas	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing	J, translation). The	RP1 - RP3
courses require ao	od previous knowledge of general language at secondary level (listening, reading, correct communication in everydav situations). The	courses develop a	and expand
these skills. Furthe	er study is aimed at professional and technical skills (reading technical literature according to the students specialization, oral and wi	itten interpretation	. Students
develop their subte	echnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurate	urately and with cor	nfidence on
	technical topics.		
04YRD7K	Russian for Advanced Students Examination	76	1
	Travario of UNCHING LATIN LATING CONTRACTOR IN TRANSITION TO TRAVENING UNDER A CONTRACTOR AND THE CONTRACTOR OF TO CONTRACTOR OF TO CONTRACTOR OF TO CONTRAC	 and skills accuri	red in RD1
- RP2 Qtur	lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	uctions by the teac	her
- KF 5. 3100	איז	uotiona by the teac	noi.

04XRZ1	Russian for Beginners Z1	Z	2
The course represe	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	. Thus it begins wit	h mastering
the Russian alphat	bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be a	able to read
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
The second semes	ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte	chnical texts. Stud	ents will be
able to communica	te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also	o develop their voca	abulary and
	master further grammatical 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
The course is base	d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training distribution of short compact texts on new subtechnical topics (for training distribution of short compact texts on new subtechnical topics).	various forms of re	eading skills
and listening) an	d introduces 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
	Buggion for Deginnero 74	7	2
	RUSSIAILIOL DEVILLINE Z4	Z	∠ of unfamiliar
words oral comm	unication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs	differences in ver	h natterns
from Czech, mo	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a	and practice oral ar	d written
communication o	in more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g.	., Siberia), learn hc	w to fill in
	forms, look up the information from the timetable, learn about Russian holidays and typical meals.		
04XRZ5	Russian for Beginners Z5	Z	2
The course expects	s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandin	ig, extracting and s	ummarizing
information from a	specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Comr	nunication skills are	e trained on
everyday topics. S	Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, p	participles,
passiv	re voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po	plite request, etc.)	
04XRZZK	Russian for Beginners Examination	ZK	3
The course conter	it is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	lge and skills acqui	ired in RZ1
- R25. Stud	ents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr	uctions by the teac	her.
04XSM1	Spanish for Intermediate Students M1		2
I he course is des	signed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest	er course develops	s standard
subjunctive	ays attention to further grammar topics (e.g., permasis verbales, futuro impenetio, direct object and indirect object pronouns, negative to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tax	te form of the imper	anve, and
	Spanich for Intermediate Students M2		ວ
	Spanish for internetiate Students Nis		∠ order to be
	able to work with specialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	7	2
The course books a	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi	ic style. They will be	competent
enough to use the	Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write shore	rt articles and sum	naries. The
	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex	amination.	
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
The course content	t is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written parts	art, students will ha	ve obtained
	non-graded assessment for course SM3.Oral examination follows the written part.		
04XSP1	Spanish for Advanced Students P1	Z	2
Course concentrate	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.	Course prerequisit	es: level B2
0.42/0.00	OF CEFR.	7	0
	Spanish for Advanced Students P2		Z
Course SP2 is the	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta.	x and focuses on ir	idependent
047603	Spanich for Advanced Students P3	7	2
Course SP3 is the	Spanish for Auvanced Shapish course. It is based on texts chosen by the students according to their future specialization. It is focu	<u> </u>	∠ munication
	based on what students will need in their career.	ised on whiteh con	internetation
04XSP7K	Spanish for Advanced Students Examination	7K	4
The course conten	t is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a	admission to oral pr	art is having
	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	e student.	0
04XSZ1	Spanish for Beginners Z1	Z	2
Course SZ1 is the	first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	al grammar structu	ires and will
be able to	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	ish and will develor	o it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course SZ2 is base	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis	will be chosen so a	as to enable
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other	s such as the Czec	h Republic.
	Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
The course is base	ed on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	e Spanish-speaking	g countries,
mainly of Spain.	in pays alternation to further grammar topics (pretento penecto, pretento indefinition, pretento impertecto, the gerund and the imperative communication on a given general topic, for which the student is trained by reading texts or listoping to them	J. It includes writter	i anu ural
047624	Spanish for Reginner 7/	7	n
The course is bas	ן סאמווזטו טע שבעוווווט בעווווט בעיי ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Soanish	speaking countries	∠ mainly of
Spain. It pavs atte	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	imperative, and su	ibjunctive).
	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 fo	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	ition.	

04XSZZK			-
•	Spanish for Beginners Examination	ZK	3
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if he	e/she has
	passed the written examination test.		
12POAL	Computer Algebra	KZ	2
Lisp, representation	of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, si	implification, greate	est common
divisor, resultant,	derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subst	itution and pattern	matching,
algebraic programn	ning, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyr	na, Mathematica),	miniproject.
12UNXAP	Introduction to UNIX	Z	2
Computer and o	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfac	ce. Hardware and s	software.
Principles of operat	ing systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi	th files. Text editors	: vi, emacs.
Command interpr	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to	ools. Graphical use	r interface
X-windows. Con	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a co	omputer. Network s	services:
	hardware sharing, mail, scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriente	d 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.		
127FI 1	Basic Electronics 1	7 7K	3
The subject provid	tes primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	it analysis methods	s for linear
circuits include	e 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	ircuits.
127EL 2	Basic Electronics 2	7 7K	3
The subject follow	us un with the Basic Electronics 1. Semiconductor elements basic properties are evolution.		Suits field
	so up with the basic Electronics 1. Semiconductor elements basic properties are explained. Theodoties a mar part deals with basic the		
	General Chemistry 1		3
i ne most importan	t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	ise are illustrated b	y examples
450110	solved in exercises.	7 714	
15CH2	General Chemistry 2	Z,ZK	3
The subject is the c	continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using v	various examples, f	the fact that
the validity of these	principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	illustrated by exam	ples solved
	In exercises.		
18INTA	Development of internet applications	KZ	4
The lectures provid	e an overview of modern technologies for the development of web applications. Students will learn basic web languages and concep	ts (HTML, URL, etc	c.) and they
will also be introdu	ced to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest t	o more advanced.	The course
			ine course
	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav	/aScript.	
18NES1	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1	vaScript. KZ	5
18NES1 The aim of the co	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth	vaScript. KZ her related machine	5 e learning
18NES1 The aim of the co	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks.	vaScript. KZ her related machine	5 e learning
18NES1 The aim of the co 18PJ	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 ourse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java	AScript. KZ her related machine Z,ZK	5 e learning 5
18NES1 The aim of the co 18PJ	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 ourse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform.	AScript. KZ ler related machine Z,ZK	5 e learning 5
18NES1 The aim of the co 18PJ 18PMTL	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB	AScript. KZ er related machine Z,ZK KZ	5 e learning 5 4
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 purse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys	AScript. KZ her related machine Z,ZK KZ sis, statistics, algor	5 e learning 5 4 ithmization
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results.	KZ kz z,ZK KZ sis, statistics, algor	5 e learning 5 4 ithmization
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab 18PRC1	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results. Programming in C++ 1	AScript. KZ her related machine Z,ZK KZ sis, statistics, algor Z	5 e learning 5 4 ithmization 4
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab 18PRC1	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results. Programming in C++ 1 This course covers mainly the C programming language and non-object oriented features of the C++ language.	KZ kz z,ZK KZ sis, statistics, algor Z	5 ∋ learning 5 4 ithmization 4
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab 18PRC1 18PRC2	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results. Programming in C++ 1 This course covers mainly the C programming language and non-object oriented features of the C++ language. Programming in C++ 2	KZ KZ Rer related machine Z,ZK KZ sis, statistics, algor Z	5 ∋ learning 5 4 ithmization 4 4
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab 18PRC1 18PRC2 This co	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results. Programming in C++ 1 This course covers mainly the C programming language and non-object oriented features of the C++ language. Programming in C++ 2 purse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	AScript. KZ er related machine Z,ZK KZ sis, statistics, algor Z KZ Template Library.	5 ≥ learning 5 4 ithmization 4 4
18NES1 The aim of the co 18PJ 18PMTL Introducing Matlab 18PRC1 18PRC2 This co 18PW	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 burse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Programming in MATLAB environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys and geometric representation of results. Programming in C++ 1 This course covers mainly the C programming language and non-object oriented features of the C++ language. Programming in C++ 2 purse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Web environment and markup languages	AScript. KZ er related machine Z,ZK KZ sis, statistics, algor Z KZ Template Library.	5 ≥ learning 5 4 ithmization 4 4 2
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