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: Povinné p edm ty specializace

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

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, Miroslav Myška Miroslav Myška 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 (Gar.)	Z	2	2P+0C	L	PS
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (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, Miroslav Kolá, Pavel Strachota Pavel Strachota Edita Pelantová (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Edita Pelantová, Miroslav Kolá, Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Edita Pelantová, Severin Pošta, Miroslav Kolá Miroslav Kolá Severin Pošta (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.)	Z	4	4+2	Z	PS
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David Be, Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David Be (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 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, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, Zuzana Pet í ková, Jakub Klinkovský, Jan Tomsa Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	PS

02DEF1	History of Physics 1	Z	2
Physics and its pla	e in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natur	al philosophers, Aristot	le. Physics in
Helenistic period, /	rchimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, G	alileo, Huygens. The bir	rth of physics
as experimental so	ence. Newton and his work.		
01DIM1	Discrete Mathematics 1	Z	2
The seminar is dev	oted to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2	Z	2
The seminar is dev	oted to recurrence relations. It includes individual problem solving.		
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Co	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circui	ts, conductivity. Basics	of the relativity
theory. Electrodyna	mic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,Maxw	ell equations	
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2.	inear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matric	ces of linear mappings.	7. Frobenius
theorem.			
01LALZ	Linear Algebra 1, exam	ZK	2
01LAL2	Linear Algebra 2	Z,ZK	4
Outline: 1. Inverse	natrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitia	an and quadratic forms.	. 5. Scalar
product and orthog	onality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inver	se matrices. 2. Method	s of calculation
of determinants. 3.	Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthog	onality. Calculation of o	rthogonal
	cometry – exercises and examples. 7. Adjoint operators.		3
01MAN	Calculus 1	Z	4
	analysis, functions of one real variable, differential calculus).	1 1	
01MANZ	Calculus 1, exam	ZK	4
01MAN2	Calculus 2	Z,ZK	
-	ifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, abs		8
		olute and conditional co	8 onvergence 3.
Real and complex	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory		onvergence 3
•			onvergence 3.
(Riemann definition	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory		onvergence 3
(Riemann definition	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory , techniques of integration and application of integrals, Generalized Riemann integral	of integrals: primitives,	onvergence 3 definite integr
(Riemann definition 02MECH ntroduction to phys	nower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory techniques of integration and application of integrals, Generalized Riemann integral Mechanics	of integrals: primitives,	onvergence 3 definite integral 4 motion, motio
(Riemann definition 02MECH ntroduction to physic in central force field	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory), techniques of integration and application of integrals, Generalized Riemann integral Mechanics Mechanic	of integrals: primitives,	onvergence 3 definite integral 4 motion, motio
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(Riemann definition O2MECH Introduction to physic in central force field continuum mechar O2MECHZ The content of the	lower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory one of integration and application of integrals, Generalized Riemann integral Mechanics See the Mechanics of Mechanics of Mechanics and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-directly, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of sections, elasticity, hydrodynamics. Sound. Mechanics - Examination	of integrals: primitives, Z mensional equations of d body, rotation. Funda	onvergence 3. definite integral 4 motion, motion mentals of
(Riemann definition O2MECH ntroduction to physic central force field continuum mechar O2MECHZ	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory), techniques of integration and application of integrals, Generalized Riemann integral Mechanics	of integrals: primitives, Z mensional equations of d body, rotation. Funda	onvergence 3 definite integr 4 motion, motion mentals of
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(Riemann definition O2MECH Introduction to physic in central force field continuum mechar O2MECHZ The content of the OOPT 18ZALG	wower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory techniques of integration and application of integrals, Generalized Riemann integral Mechanics	of integrals: primitives, Z mensional equations of d body, rotation. Funda ZK Z Z,ZK	definite integral 4 motion, motion mentals of 2 4
Riemann definition D2MECH Introduction to physical representation of the continuum mechanical representation of the content of	wower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory techniques of integration and application of integrals, Generalized Riemann integral Mechanics	of integrals: primitives, Z mensional equations of d body, rotation. Funda ZK Z,ZK of the algorithm compl	onvergence 3 definite integration of the following definite integratio
Riemann definition D2MECH Introduction to physical representation of the continuum mechanical representation of the content of	wower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory techniques of integration and application of integrals, Generalized Riemann integral Mechanics	of integrals: primitives, Z mensional equations of d body, rotation. Funda ZK Z,ZK of the algorithm compl	onvergence 3 definite integral 4 motion, motion mentals of 2 2 4 dexity. 4

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 (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 (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.)	KZ	4	2+2	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS

01TA	Algebra and Calculus in Applications	ZK	2
We illustrate metho	ods based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles conci	rete mathematics. Theorems are motivated by	problems fro
informatics and the	ey are illustrated on problems from informatics.		
01DIFR	Differential Equations	Z,ZK	4
The course contain	ns introduction in the solution of ordinary differential equations. It contains a survey of equation types so	olvable analytically, basics of the existence the	ory, solution
linear types of equa	ations and introduction in the theory of boundary-value problems.		
01DIMA3	Discrete Mathematics 3	ZK	2
Students get to kno	ow problems and methods of their solving from various parts of discrete mathematics. The seminar inclu	udes individual problem solving of one's own o	choice from th
given literature.			
01LIP	Linear Programming	Z,ZK	3
We study special p	problems about constrained extremum problems for multivariable functions (the function is linear and the	constraint equations are given by linear equat	ions and line
nequalities).			
01ANA3	Mathematical Analysis A 3	Z,ZK	9
Function sequence	es and series, introduction to topology and metric spaces, differential calculus of functions of several val	riables.	
01ANA4	Mathematical Analysis A 4	Z,ZK	9
Inverse and implici	it functions, constrained extrema, measure and integration theory, contour and surface integrals.		
01NMA1	Numerical Mathematics 1	ZK	4
The course introdu	ices to numerical methods for solving the basic problems arising from technical and research problems.	. The accent is put on a good understanding o	f the root of
theoretical method	S.		
18PRC1	Programming in C++ 1	Z	4
This course covers	s mainly the C programming language and non-object oriented features of the C++ language.	·	
18PRC2	Programming in C++ 2	KZ	4
This course covers	s the object oriented programming and othesr advanced constructs in the C+;+ programming language	and the Standard Template Library.	
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
Wave phenomena	in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive	media. Wave optics: polarization, interference	, diffraction,
coherence. Geome	etrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the	Compton effect, the de Broglie waves,the Sch	rodinger
equation stationar	y states and spectra of finite 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 Pavel Š oví ek 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 (Gar.)	Z,ZK	4	3+1	Z	PS

18PJ	Programming in Java 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

01ALGE	Algebra	Z,ZK	6
_	ioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer		-
•	n of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integra		•
ields, lattices. Indep	pendent chapters are devoted to divisibility in integral domains and to finite fields.		
D1BPMI1	Bachelor project 1	Z	5
The bachelor projec	t is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by t	he project superviso	r during comm
egular meetings ar	d discussions.		
)1BPMI2	Bachelor project 2	Z	10
he bachelor projec	t is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by t	he project superviso	r during comm
egular meetings ar	d discussions.		
O1FKO	Functions of Complex Variable	Z,ZK	3
he course starts fro	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable	e are explained in det	ail: the derivati
f a complex function	n and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve,	Cauchy's integral th	eorem, Morera
neorem, roots of a h	nolomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauc	chy estimates, Laure	nt series, resid
heorem.			
1NMA2	Numerical Mathematics 2	Z,ZK	3
he course is devote	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equ	ations. It explains me	thods converti
oundary-value pro	olems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential	equations.	
1PGR1	Computer Graphics 1	Z,ZK	2
he first part of the	wo-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the	state of the art techn	nologies. Furth
a survey of fundame	ntal problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems	and explanation of the	na correspondir
	mai probleme in 22 compater grapinos is given togotici. mai anon contacino i cotto is pat en matiematica accompaten en probleme	and oripianation or the	ie correspondi
algorithms using kn	owledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of	•	•
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he process of author	owledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of	•	•
he process of author 01PGR2	owledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications oring scientific documents and presentations.	f computer graphics	approaches in
he process of author) 1PGR2 The second part of	owledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications oping scientific documents and presentations. Computer Graphics 2	f computer graphics Z,ZK nenomenon ubiquitou	approaches in 2 us in computer
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Name of the block: Compulsory elective courses

Introduction to Operating Systems

Minimal number of credits of the block: 0

The role of the block: PV

01ZAOS

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

Introduction to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Memory mapped files.

Credits in the group: 0

Only one of these courses is obligatory. 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
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	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		PV
00UPSY	Introduction to Psychology	Z	1	0+2		PV

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

00EKOT	Economy in Technology	Z	1				
The course introduces t	he course introduces the basics of micro- and macroeconomics.						
00ETV	Ethics of Science and Technology	Z	1				
00RET	Rhetoric	Z	1				
The course is focused of	in the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	ne composition of	public speech				
as well as to its nonverb	al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	integral part of the	ne course.				
00UPRA	Introduction to Law	Z	1				
00UPSY	Introduction to Psychology	Z	1				

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:

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
04XAMZK	English for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners – Beginners - Examination Jana Ková ová, Slav na Brownová	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 Michal Beneš Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination V ra Šlechtová	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 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 English courses.

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 demi	l l	u
in the three AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min)	, , , , , , , , , , , , , , , , , , , ,	ŭ
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	I —· ·	urses and can
only be taken after successful completion of all three courses. Detailed information is to be obtain		
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	a written and oral part covers all the topics of the CESM1,2,3 course	es and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from		·
04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	4
he course content is the examination as given by the study plan. The examination consisting of a	a written and oral part covers all the topics of the CESP1,2,3 course	es and can only
e taken after successful completion of the 3 courses. Detailed information is to be obtained from		
04XFMZK French for Intermediate Students Examination	ZK	4
he content is the examination as given by the study programme. The whole French programme is	s ended with an examination covering the contents of FM1-FM3. Th	ne examination
onsists of a written and oral part and is organized according to Examination Instructions, a docu	ment available on the web.	
4XFPZK French for Advanced Students Examination	ZK	4
he whole French program is ended with an examination covering the contents of FP1-FP3. The ϵ	examination consists of a written and/or an oral part and is organize	ed according to
xamination Instructions, a document available on the web. Assessment of the presentation is inc	luded into the examination grading.	
4XFZZK French for Beginners Examination	ZK	3
he content is the examination as given by the study plan. The course is terminated with an exam	ination consisting of oral and written part. The examination is ruled	by the document
struction for examination. Its content covers the levels FZ1 - FZ5.		
4XNMZK German for Intermediate Students Examination	ZK	4
he course content is the examination as given by the study plan. The whole German for Intermedi		
the course content to the examination as given by the stady plan. The whole comman for intermed	late Students Course is completed by an examination consisting of	wo parts - writter
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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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits | Scope | Semester Code Role members) Tutors, authors and guarantors (gar.) **History of Physics 2** 02DEF2 Ζ L 2+0 Igor Jex Miroslav Myška Igor Jex (Gar.) **History of Mathematics** 01DEM Ζ 1 0+2 L ٧ Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) Functional Analysis 1 01FANA1 Z,ZK 2P+2C Pavel Š oví ek Pavel Š oví ek (Gar.)

			1			1
01FAN2	Functional analysis 2 Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	5	2P+2C		V
01JEPR	Simple Compilers Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	2	L	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
00MAM1	Essentials of High School Course 1 David Be	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
12POAL	Computer Algebra Richard Liska Richard Liska (Gar.)	KZ	2	2	Z	V
01SITE1	Computer Networks 1 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	Z	V
01SITE2	Computer Networks 2 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	L	V
01PSR	Principles of Statistical Decision Making Václav K s Václav K s Václav K s (Gar.)	ZK	2	2+0	L	V
01PERI	Programming of Peripherals Devices Zden k ulik Zden k ulik (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 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	Z	2	0+2	L	V
01SAM	Petr Ambrož Petr Ambrož Petr Ambrož (Gar.) Seminar of Applied Mathematics	Z	2	0P+2S		V
01SSM1	Václav Klika Václav Klika Václav Klika (Gar.) Seminar of Contemporary Mathematics 1	Z	2	0+2	Z	V
01SOS1	Mat j Tušek Edita Pelantová (Gar.) Software Seminar 1	Z	2	0+2	Z	V
01SOS2	Zden k ulík Zden k ulík Zden k ulík (Gar.) Software Seminar 2	Z	2	0+2	L	V
TV-1	Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	1	-	Z	V
TV-2	Physical Education	Z	1		L	V
	Physical Education		-	0.0		-
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 Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	V
02TEF2	Theoretical Physics 2 Filip Petrásek, Petr Novotný 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
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	V
18INTA	Development of internet applications Jakub Klinkovský, Dana Majerová Dana Majerová (Gar.)	KZ	4	2P+2C	L	V
02UKP1	Introduction to Curves and Surfaces Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	L	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 (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 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
01ZPB1	Introduction to Computer Security 1 Petr Voká Petr Voká Petr Voká (Gar.)	Z	2	1+1		V
	f the courses of this group of Study Plan: Code=BSPMIMINFV Nam	ne=BS P_MIE	MINF C	ptional co		
02DEF2	History of Physics 2				Z	2
•	cal mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, or	•			•	
	m, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its . Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfo					
and relativistic privales.	, i ianon ana Emplein. Dibooyery oi radioannyity, birublure oi aloin, aloinib hubleub. Nullieno	i a ana Doni. Hit	VYCIV LU HUU	COL CHEIUV. E		

and relativistic physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear energy, Elementary particles, standard model. The concept of Nature and Universe of today. Z 01DEM **History of Mathematics** The subject has the form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - give their talks on varoius topics from the history of mathematics. 01FANA1 Functional Analysis 1 Z,ZK 5

01FAN2	Functional analysis 2	Z,ZK	5
-	resent selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, close	d operators and their s	spectrum,
	ators, spectral decomposition of bounded self-adjoint operators.		
01JEPR	Simple Compilers	Z	2
	nalysis, code generation, simple optimizations, development environments, reflection.		
04AKS	English Conversation	Z	1
	op the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral comm		-
	arious communication situations and will master their communication strategy. They will also practise their listening skills in or udent will be trained to express their ideas clearly and according to current English usage, and become a more confident spe		a participat
00MAM1	Essentials of High School Course 1	Z	1
	ů –	Z	<u>'</u> 1
00MAM2	Essentials of High School Math Course 2 igh school mathematics.		1
		1/7	
12POAL	Computer Algebra f basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithme	KZ	2
	vation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, s	•	
	ng, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, N	·	•
1SITE1	Computer Networks 1	7 7	2
_	story and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Netwo	rk protocols, practical	_
-	ins. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification		
	. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the		
1SITE2	Computer Networks 2	Z	2
Inderstanding the his	story and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Netwo	rk protocols, practical	exercises w
CP/IP communication	ns. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification	n authorities, public key	infrastructi
PKI). Use in practice	. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the	serial control lines, m	odems)
)1PSR	Principles of Statistical Decision Making	ZK	2
he subject is devote	to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutu	ual comparisons with re	espect to th
roperties and applic	ability.		
1PERI	Programming of Peripherals Devices	Z	2
lemory organization	input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of periphe	rals device drivers.	
1PW	Windows Programming	Z	2
imple graphical prog	grams for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identification an	d reflection.	
8PMTL	Programming in MATLAB	KZ	4
_	nvironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic	analysis, statistics, alg	orithmizatio
ind geometric repres			
8PW	Web environment and markup languages	KZ	2
	s students to fundamental principles and best practices for web design with respect to technical functionality, informational va-		
)1PSL	LaTeX - Publication Instrument	Z	2
	d to the basics and facilities of computer typography, particularly to the system LaTeX		
1SAM	Seminar of Applied Mathematics	Z	2
	acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5	. Dynamic pricing. 6. S	Statistical
	nics, sociology and psychology. 7. Application of random matrix theory.		
)1SSM1	Seminar of Contemporary Mathematics 1	Z	2
	s a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basi		
)1SOS1	Software Seminar 1	Z	2
	sembly language programming for microprocessors Intel 80x86		
)1SOS2	Software Seminar 2	Z	2
	FK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unit	x like operating system	ns, especia
	rtability to Microsoft Windows.	7 7	
-V-1	Physical Education	Z	1
V-2	Physical Education	Z	1
ΓV-3	Physical education	Z	1
ΓV-4	Physical education	Z	1
2TEF1	Theoretical Physics 1	Z,ZK	4
he course is an intro	duction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian form	alism as well as diferer	nt approach
	mics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on eleme		-
	of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of the course cover differential and integral principles.	ples of mechanics. The	e subject is
· · · · · · · · · · · · · · · · · · ·	urse of classical theoretical physics (02TEF1, 02TEF2).		
2TEF2	Theoretical Physics 2	Z,ZK	4
ensors and transforr	nations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics		=
	e. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic waves in dielectromagnetic wa	ectromagnetic radiation	n in the dip
•		7 7 7 7	
pproximation.		771/	4
pproximation. 02TER	Heat and Molecular Physics	Z,ZK	
pproximation. 02TER hermal expansion o	f materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermody	ynamic principle, ideal	ū
pproximation. D2TER hermal expansion o entropy; non-chemica	f materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermody l systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's veloci	ynamic principle, ideal ity distribution,equipart	tition theore
pproximation. D2TER Thermal expansion of entropy; non-chemical	f materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermody I systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocing Thermodynamics and Statistical Physics	ynamic principle, ideal ity distribution,equipart Z,ZK	tition theore
pproximation. 12TER Thermal expansion of the one of the original expansion or original expansion original expansion or original expansion origi	f materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermody l systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's veloci	ynamic principle, ideal ity distribution,equipart	tition theore 4 istical entro

18INTA	Development of internet applications	KZ	4
The lectures provide	le an overview of modern technologies for the development of web applications. Students will learn basic web languages and co	ncepts (HTML, UR	L, etc.) and they
will also be introduc	ced to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simpl	lest to more advan	ced. The course
is oriented primarily	y towards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript.		
02UKP1	Introduction to Curves and Surfaces	Z	2
The goal of the lect	ture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts	s for the curves are	e introduced
Frenets formulae ar	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential	part of the lecture a	are the examples
calculated by stude	ents.		
12UNXAP	Introduction to UNIX	Z	2
Computer and oper	rating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interf	ace. Hardware and	d software.
Principles of operat			
	ting systems. Operating system UNIX. Basic principies, kernei, kernei services. Documentation, file system, tile atributes, workir	na with files.Text e	ditors: vi. emacs.
	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working systems. Operating system, file atributes, working systems. Operating systems of the system of	•	
Command interpret	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar	rd tools. Graphical	user interface
Command interpreto X-windows. Computer	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar tter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a	rd tools. Graphical	user interface
Command interpret X-windows. Comput hardware sharing, r	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications	rd tools. Graphical computer. Network	user interface k services:
Command interpret X-windows. Comput hardware sharing, r 12UVP	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing	rd tools. Graphical computer. Network	user interface k services:
Command interpret X-windows. Comput hardware sharing, r 12UVP Practically oriented	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with	rd tools. Graphical computer. Network	user interface k services:
Command interpret X-windows. Comput hardware sharing, r 12UVP Practically oriented and technicval com	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with a puting, data analysis, data visualisation and algorithm development.	d tools. Graphical computer. Network Z th some basic tools	user interface k services: 2 s fort scientific
Command interpret X-windows. Comput hardware sharing, r 12UVP Practically oriented and technicval com	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with	rd tools. Graphical computer. Network	user interface k services:
Command interpret X-windows. Comput hardware sharing, r 12UVP Practically oriented and technicval computed 12ZEL1	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with a puting, data analysis, data visualisation and algorithm development.	tools. Graphical computer. Network Z th some basic tools	user interface k services: 2 s fort scientific
Command interpret X-windows. Comput hardware sharing, r 12UVP Practically oriented and technicval com 12ZEL1 The subject provide	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with a puting, data analysis, data visualisation and algorithm development. Basic Electronics 1	tools. Graphical computer. Network Z th some basic tools Z,ZK ircuit analysis mett	user interface k services: 2 s fort scientific 3 nods for linear
Command interpret X-windows. Comput hardware sharing, recording to the computation of the	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar iter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with a puting, data analysis, data visualisation and algorithm development. Basic Electronics 1 es 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.	tools. Graphical computer. Network Z th some basic tools Z,ZK ircuit analysis mett	user interface k services: 2 s fort scientific 3 hods for linear
Command interpret X-windows. Comput hardware sharing, n 12UVP Practically oriented and technicval comput 12ZEL1 The subject provide circuits include sym 12ZEL2	ter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar ter networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a mail, scp, etc. Network applications Introduction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with apputing, data analysis, data visualisation and algorithm development. Basic Electronics 1 Basic Electronics 2 Basic Electronics 3 Basic Electronics 4 Basic Electronics 6 Basic Electronics 8 Basic Electronics 9 Basic Electronics 1 Basic Electronics 2 Basic Electronics 3 Basic Electronics 4 Basic Electronics 6 Basic Electronics 6 Basic Electronics 7 Basic Electronics 8 Basic Electronics 8 Basic Electronics 9 Basic Electronics 1 Basic Electronic	d tools. Graphical computer. Network Z th some basic tools Z,ZK ircuit analysis methods inside linear cit. Z,ZK	user interface k services: 2 s fort scientific 3 nods for linear ircuits. 3

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	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2 V ra Šlechtová	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 V ra Šlechtová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2 V ra Šlechtová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 V ra Šlechtová	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 (Gar.)	Z	2	2\$	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1	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 V ra Šlechtová 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 V ra Šlechtová 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	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	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	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová	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 V ra Šlechtová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 V ra Šlechtová 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 V ra Šlechtová	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 V ra Šlechtová 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	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 V ra Šlechtová 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	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 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	٧
04XRZ4	Russian for Beginners Z4	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 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 V ra Šlechtová	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V

Characteristics of the courses of this group of Study Plan: Code=BSPJAZYKYZAP Name=BS P jazyky zap

04XAM1	English for Intermediate Students M1	Z	2
-	for students who have successfully completed the full secondary school English language course at least at the A2 level of the	•	
•	ages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals or ritten communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical in	,	, ,,
•	e of grammar issues used in EAP.	norest. Attention	is also paid to
04XAM2	English for Intermediate Students M2	Z	2
The AM2 course expect	is the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more of	n specific gramm	ar, functions,
**	of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guide	ed writing. If nece	ssary, grammar
revision is included.	E 11 (1 (1 (1 (1 (1 (1 (1 (1 (1	-	
04XAM3	English for Intermediate Students M3 e skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechn	Z	2 nd independent
·	sional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	•	
• .	also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation		
student's field.		<u>.</u>	
04XAP1	English for Advanced Students P1	Z	2
-	for students who have successfully completed the full secondary school English language course (at least the B1 level of the	-	
-	ages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamen cal of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, or		
	and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (
	sary, revision of selected grammar topics is included.	,	
04XAP2	English for Advanced Students P2	Z	2
	ed on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen b		- 1
	oncentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetori		
	cossible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistic student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal w	-	- 1
	king, cohesion and coherence in texts.	Titing including th	e senience and
04XAP3	English for Advanced Students P3	Z	2
The AP3 course is base	d on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It	includes training	oral and written
	d functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	,	
	on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang	juage both in ora	and written
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and		
-	and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communication	_	
	The course are supplying a fire Objects religible and the Domestic and Fire Additional A		
communicative situation	is. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the cours	e, the students w	ill have reached
A1 (CEFR) approximate	ely.	·	
A1 (CEFR) approximate 04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
A1 (CEFR) approximate 04XCESZ2 The language and comm	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and	Z conjugation syste	2 em and practise
A1 (CEFR) approximate 04XCESZ2 The language and commonication of frequency and commonication of the second	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end o	Z conjugation syste	2 em and practise
A1 (CEFR) approximate 04XCESZ2 The language and comr communication of freque have reached A2 (CEFR)	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end o R) approximately.	Z conjugation syste	2 em and practise
A1 (CEFR) approximate 04XCESZ2 The language and comr communication of frequ have reached A2 (CEFR 04XCESZ3	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end o	Z conjugation syste f the course, the	2 em and practise students will
A1 (CEFR) approximate 04XCESZ2 The language and comr communication of frequ have reached A2 (CEFF 04XCESZ3 The course further devecorrect pronunciation, d	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on eepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are	Z conjugation syste f the course, the Z a building up basi nd they practise f	2 em and practise students will 2 c vocabulary, requent types
A1 (CEFR) approximate 04XCESZ2 The language and comr communication of frequ have reached A2 (CEFF 04XCESZ3 The course further deve correct pronunciation, d of dialogue. They also p	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on teepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-	Z conjugation syste f the course, the Z building up basi nd they practise f 7 in " eština exp	2 em and practise students will 2 c vocabulary, requent types res 1".
A1 (CEFR) approximate 04XCESZ2 The language and comr communication of frequ have reached A2 (CEFR 04XCESZ3 The course further deve correct pronunciation, d of dialogue. They also p 04XCESM1	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on the epening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are aractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-Czech for Foreigners - Intermediate 1	Z conjugation syste f the course, the Z building up basi nd they practise f 7 in "eština exp	2 em and practise students will 2 c vocabulary, requent types res 1". 2
A1 (CEFR) approximate 04XCESZ2 The language and common communication of frequency have reached A2 (CEFR 04XCESZ3 The course further development of dialogue. They also per 04XCESM1 The course is focused of	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on teepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-	Z conjugation syste f the course, the Z building up basi nd they practise f 7 in "eština exp	2 em and practise students will 2 c vocabulary, requent types res 1". 2
A1 (CEFR) approximate 04XCESZ2 The language and common communication of frequency have reached A2 (CEFR 04XCESZ3 The course further devectorrect pronunciation, dof dialogue. They also provided the course is focused of social situations.	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on eepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5- Czech for Foreigners - Intermediate 1 In correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the	Z conjugation system f the course, the Z I building up basind they practise f 7 in ,, eština exp Z e student's vocab	2 em and practise students will 2 c vocabulary, requent types res 1". 2 ulary for various
A1 (CEFR) approximate 04XCESZ2 The language and common communication of frequency have reached A2 (CEFR 04XCESZ3 The course further development of dialogue. They also provided the course is focused of social situations.	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on eepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5- Czech for Foreigners - Intermediate 1 In correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the Czech for Foreigners - Intermediate 2	Z conjugation syste f the course, the Z building up basi nd they practise f 7 in ,, eština exp Z e student's vocab	2 em and practise students will 2 c vocabulary, requent types res 1". 2 ulary for various
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A1 (CEFR) approximate 04XCESZ2 The language and commonication of frequency frequency for the course further developed in the course focused of social situations. 04XCESM1 The course is focused of social situations. 04XCESM2 The course develops the in understanding commonication of the course revises lexicology and on developed in the course of functional style includes communication of the course extends the emphasis on individual of the course develops the student's project. Writin of the course develops the student's project.	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 Jobps the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on espening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5- Czech for Foreigners - Intermediate 1 n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena. It practices writing, speaking, and read on abbreviations, abbreviated words, and mathematical terms and formulas. Czech for Foreigners - Intermediate 3 morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially the student's writing skills. Czech for Foreign Students - Advanced 1 sources is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europical proposed propo	Z conjugation syste f the course, the Z building up basind they practise f 7 in, estina exp Z estudent's vocab Z ding skills and tra Z ally focused on st Z ropean Framewo cience. Students Student Life. Writ Z d specialist texts Z n, and, finally, pre Z n written and oral ansmit general an stemizes and exp	2 em and practise students will 2 c vocabulary, requent types res 1". 2 ulary for various 2 ins the student 2 ylistics and 2 rk of Reference. are taught the ten practice 2 placing greater 2 sentation of the 2 form. Students d technical ands language
A1 (CEFR) approximate 04XCESZ2 The language and commonication of frequency frequency frequency for the course further developes the course further developes frequency frequen	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end o R) approximately. Czech for Foreigners - Beginners 3 slops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on eepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts ar ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5- Czech for Foreigners - Intermediate 1 norrect pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and read on abbreviations, abbreviated words, and mathematical terms and formulas. Czech for Foreigners - Intermediate 3 morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia oping the student's writing skills. Czech for Foreign Students - Advanced 1 course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Eurovision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of stee of engineering and professional communication, both in spoken and written form. The topics include University Studies and in with teachers and faculty administrators. Czech for Foreigners - Advanced 2 student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical an work. Czech for Foreigners - Advanced 3 estudent's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation	Z conjugation syste f the course, the Z building up basind they practise f 7 in, estina exp Z estudent's vocab Z ding skills and tra Z ally focused on st Z ropean Framewo cience. Students Student Life. Writ Z d specialist texts Z n, and, finally, pre Z n written and oral nsmit general an stemizes and exp sonal statement,	2 em and practise students will 2 c vocabulary, requent types res 1". 2 ulary for various 2 ins the student 2 rk of Reference. are taught the ten practice 2 placing greater 2 sentation of the 2 form. Students d technical ands language request, answer
A1 (CEFR) approximate 04XCESZ2 The language and commonication of frequency frequency frequency for the course further developes the course further developes the course is focused or social situations. 04XCESM1 The course is focused or social situations. 04XCESM2 The course develops the in understanding commonication of the course revises lexicology and on developes the course for the course of the c	Czech for Foreigners - Beginners 2 munication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and ent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end or approximately. Czech for Foreigners - Beginners 3 Jobps the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on espening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts are ractise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5- Czech for Foreigners - Intermediate 1 n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the correct pronunciation, important morphological phenomena. It practices writing, speaking, and read on abbreviations, abbreviated words, and mathematical terms and formulas. Czech for Foreigners - Intermediate 3 morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially the student's writing skills. Czech for Foreign Students - Advanced 1 sources is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europical proposed propo	Z conjugation syste f the course, the Z building up basind they practise f 7 in, estina exp Z estudent's vocab Z ding skills and tra Z ally focused on st Z ropean Framewo cience. Students Student Life. Writ Z d specialist texts Z n, and, finally, pre Z n written and oral nsmit general an stemizes and exp sonal statement,	2 em and practise students will 2 c vocabulary, requent types res 1". 2 ulary for various 2 ins the student 2 rk of Reference. are taught the ten practice 2 placing greater 2 sentation of the 2 form. Students d technical ands language request, answer

04XFM2	French for Intermediate Students M2	Z	2
	M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science		
	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scirchitects. Description of an object, device, shapes, dimensions, material.	since and technolog	ogy, French
04XFM3	French for Intermediate Students M3	Z	2
	in improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (
•	mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w		
	ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and o		ir renor articles
04XFP1	French for Advanced Students P1	Z	2
	ne objective of this three-semester course is to improve and further develop communication in the French language in both w		
	e in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gen The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re		
•	ait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactions		
	dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top		
	istry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2 With the link to P1 cont	French for Advanced Students P2 ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	Z	2
	communication are stressed (passive voice, nominalization, word formation).	ii giveii topics. i e	atures typical of
04XFP3	French for Advanded Students P3	Z	2
	n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in		
	rter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cov rk compiled from 3 French sources. Preparation of several set topics for oral examination.	/ers a technical /a	ipplied science
04XFZ1	French for Beginners Z1	Z	2
	ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in	_	_
	ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able		
	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdo áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions		·
•	mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation.	-	
04XFZ2	French for Beginners Z2	Z	2
= :	with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		
•	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem p of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	•	
	work? A few expressions concerning the study. Name of University and Faculty.	·	·
04XFZ3	French for Beginners Z3	Z	2
•	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F tuations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in		-
•	Reading covers short adapted texts of general interest first, and later popular science texts.	normation and loc	id as part or
04XFZ4	French for Beginners Z4	Z	2
•	n FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The c		
	xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the led ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho		
	how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.	- pg,	
04XFZ5	French for Beginners Z5	Z	2
•	n FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The ered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
•	ched by lessons 24 - 20 of the textbook. Fravda-Fravdova, French for beginners, and is complemented from other materials.		
subjunctive clauses, ge	rund, passive.		
04XNM2	German for Intermediate Students M2	Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relation In g of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
· ·	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	0,	
phenomena important f	or professional discourse (participles, relative clauses).		
04XNM1	German for Intermediate Students M1	Z	2
•	urse is to level off the students´ skills in the German language. The course focuses on revision of more difficult phenomena an ses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repul		
•	ogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist		
	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	_	
04XNM3	German for Intermediate Students M3	Z Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relation Ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
•	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	•	
	or professional discourse (participles, relative clauses).		
04XNP1 This course requires an	German for Advanced Students P1 od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le	Z velled off at the he	2 eainning of the
· -	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for		
more difficult grammar s	tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	,	
i.e., telephoning.		_	
04XNP2 The course develops the	German for Advanced Students P2 e students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	Z ding their general a	2 and subtechnical
•	e students. Skins in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and		
· -	V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	·	·

04XNP3	German for Advanced Students P3	Z	2
	3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vi	-	
, ,	r accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v ing, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use	, ,	
	process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. T	-	
practice to and from Ge			
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 alphal	bet (both printed a	nd handwritten),
· ·	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask		-
	nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievemen he course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	level of the RZ2	course. The
04XRM2	Russian for Intermediate Students M2	Z	2
	the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.		
04XRM3	Russian for Intermediate Students M3	Z	2
-	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h	_	_
in the timetable.			
04XRP1	Russian for Advanced Students P1	Z	2
	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	acticing more diffi	cult grammar
	ng the fundamentals of technical language and training writing skills.		
04XRP2	Russian for Advanced Students P2	Z	2
	RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, it on independent oral and written communication.	verb aspects, spe	ecific syntactic
04XRP3	Russian for Advanced Students P3	Z	2
-	RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra	_	_
	revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).	- '	
these skills. Further stu	dy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and	d written interpreta	tion). Students
develop their subtechnic	cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and wi	th confidence on
technical topics.			
04XRZ1	Russian for Beginners Z1	Z	2
	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal	_	_
	d stress, understand its contents and summarize it.	iiig). Otadenis wii	i be able to read
04XRZ2	Russian for Beginners Z2	Z	2
=	f the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short si	ubtechnical texts.	Students will be
able to communicate us	sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will	also develop their	r vocabulary and
	tical 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
	RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	•	•
	duces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will b ress their opinion. Writing skills will be trained on guided writing tasks and note-taking.	e able to respond	so as to be
04XRZ4	Russian for Beginners Z4	Z	2
-	RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with	_	
	tion in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver	•	-
from Czech, modality, ir	nperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),	and practice oral	and written
	e specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.	.g., Siberia), learn	how to fill in
	mation from the timetable, learn about Russian holidays and typical meals.		
04XRZ5	Russian for Beginners Z5 student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understa	Z	2
	ialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C	-	-
	ng grammar is based on professional and technical texts and only includes items typically used in professional communication		
passive voice). Students	s develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite reque	est, etc.)	
04XSM1	Spanish for Intermediate Students M1	Z	2
_	for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-seme		-
	tention to further grammar topics (e.g., perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega		•
	and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts of	_	
04XSM2	Spanish for Intermediate Students M3	Z	2
	e students´ knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for alized texts on the Internet.	specific purposes	sin order to be
04XSM3	Spanish for Intermediate Students M3	Z	2
	upplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acac	_	
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	short 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
	n more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communicat	ion. Course prere	quisites: level B2
of CEFR.	Charlet for Advanced Chydente DO		
04XSP2	Spanish for Advanced Students P2 Ind part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and sy	ntay and focuses	2 on independent
written communication.	and pair or the advanced opanion course, extending opanion for specific purposes topics. It comprises more granifial and sy	max and iocuses	on macpenderit
04XSP3	Spanish for Advanced Students P3	Z	2
	part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	1	
	s will need in their career.		

04XSZ1	Spanish for Beginners Z1	Z	2	
Course SZ1 is the first s	tage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	nental 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 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 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	thers 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) o	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 imperativ	e). It includes writ	ten and oral	
communication on a giv	en 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 Spani	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	the imperative, an	d subjunctive),	
to written and oral comr	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 Spanisl	h 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.		ı
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
00MAM2	Essentials of High School Math Course 2	Z	1
'	Review of basics of high school mathematics.	ı	
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focus	sed 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	olic speech
as well as to its r	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	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 ax	kioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the	axiom of choice an	ı d equivaleı
statements, definition	on of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral dom	ains, principal idea	al domains
	fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.		
01ANA3	Mathematical Analysis A 3	Z,ZK	9
·	Function sequences and series, introduction to topology and metric spaces, differential calculus of functions of several variables.	les.	
01ANA4	Mathematical Analysis A 4	Z,ZK	9
01ANA4	Mathematical Analysis A 4 Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.	Z,ZK	9
01ANA4 01BASE		Z,ZK Z	9
01BASE	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.	Z	1
01BASE In the first part of the projects at the facul	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals. Bachelor Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requity. The second part is designed as a practical training for the defense of the bachelor's degree project. The students give oral prese	Z irements for bache	1 elor's degre
01BASE In the first part of the projects at the facul	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals. Bachelor Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requity. The second part is designed as a practical training for the defense of the bachelor's degree project. The students give oral preserults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the projects.	Z irements for bache	1 elor's degre
01BASE In the first part of the projects at the facul the research resu	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals. Bachelor Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requity. The second part is designed as a practical training for the defense of the bachelor's degree project. The students give oral preservables achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the patched to the student's performance.	Z irements for bache ntations of the curr possibilities of impr	1 elor's degre ent state o oving the
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01DIMA3 Students get to kno	Discrete Mathematics 3 by problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solving	ZK g of one's own cho	2 ice from the
	given literature.		
01FAN2	Functional analysis 2	Z,ZK	5
The course aims	to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed op Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.	perators and their s	spectrum,
01FANA1	Functional Analysis 1	Z,ZK	5
01FKO	Functions of Complex Variable	Z,ZK	3
	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are ex		_
	on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauch	-	
theorem, roots of a	holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy esti	mates, Laurent sei	ries, residue
	theorem.		
01JEPR	Simple Compilers	Z	2
	Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.	'	
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 li	near mappings. 7.	Frobenius
	theorem.		
01LAL2	Linear Algebra 2	Z,ZK	4
Outline: 1. Invers	se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and		5. Scalar
product and orthog	ionality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matri	ces. 2. Methods of	calculation
of determinants.	3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonality	y. Calculation of or	thogonal
	complements. 6. Geometry – exercises and examples. 7. Adjoint operators.		
01LALZ	Linear Algebra 1, exam	ZK	2
01LIP	Linear Programming	Z,ZK	3
We study special p	roblems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given	•	s and linear
	inequalities).		
01MAN	Calculus 1	Z	4
	Basic calculus (real analysis, functions of one real variable, differential calculus).	'	
01MAN2	Calculus 2	Z,ZK	8
	ulifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute ar		ergence 3.
Real and complex p	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integr	als: primitives, defi	nite integral
	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral		
01MANZ	Calculus 1, exam	ZK	4
01NMA1	Numerical Mathematics 1	ZK	4
-	uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good		the root of
	theoretical methods.	_	
01NMA2	Numerical Mathematics 2	Z,ZK	3
	led to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.		s converting
bound	dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differ	ential equations.	
01PERI	Programming of Peripherals Devices	Z	2
Memory or	ganization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of perip	herals device drive	ers.
01PGR1	Computer Graphics 1	Z,ZK	2
	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state o		ies. Further,
a survey of fundame	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex	planation of the co	rresponding
algorithms using k	nowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com	puter graphics app	roaches in
	the process of authoring scientific documents and presentations.		
01PGR2	Computer Graphics 2	Z,ZK	2
The second part of	of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenometer	enon ubiquitous ir	computer
• •	a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description		
=	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in		
at FNSPE. The algo	orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic	al concepts are de	emonstrated
O L D D O T	using Blender, an open-source 3D modeling and rendering software instrument.	7 714	
01PRST	Probability and Statistics	Z,ZK	4
	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and of	=	_
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testir		and proved.
		Z	2
01PSL	LaTeX - Publication Instrument The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	۷	2
01PSR		ZK	2
	Principles of Statistical Decision Making		
THE SUDJECT IS UEVO	ted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual cor properties and applicability.	iiparisoris willi 185	Peor 10 (116)
01PW	Windows Programming	Z	2
	graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificat		2
01SAM		Z	2
	Seminar of Applied Mathematics		
i. Delectoscopy	and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. Dynamics of crowd movement. 4. Dynamics of crowd mov	ynamic pricing. 6.3	วเสแรแบลิโ
0401754		7	2
01SITE1	Computer Networks 1 history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI, Network prof	Z	2 ercises with
	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network prot tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification autho	· ·	
	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se		
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01SITE2	Computer Networks 2	l Z	2		
Understanding the	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro	ı tocols, practical ex	ercises with		
TCP/IP communications. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authorities, public key infrastructure					
(PKI). Use in practice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the serial control lines, modems)					
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	blems 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.				
01ZAOS	Introduction to Operating Systems	Z,ZK	2		
Introdu	ction to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Me	mory mapped files			
01ZPB1	Introduction to Computer Security 1	Z	2		
02DEF1	History of Physics 1	Z	2		
_	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	sophers, Aristotle.	Physics in		
1 .	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, H	-	-		
	as experimental science. Newton and his work.	, ,	, ,		
02DEF2	History of Physics 2	Z	2		
	of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E	_			
	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics. Boltzmann.	, ,			
and relativistic p	physics, 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, C	oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond	luctivity. Basics of t	he relativity		
theory	. Electrodynamic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, N	Maxwell equations	•		
02MECH	Mechanics	Z	4		
	ics, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimension	in all equations of mo	tion, motion		
	ield, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bod	-			
	continuum mechanics, elasticity, hydrodynamics. Sound.				
02MECHZ	Mechanics - Examination	ZK	2		
	The content of the publicat is the examination according to the plan of studies		_		
	The content of the subject is the examination according to the plan of studies.				
02TEF1	Theoretical Physics 1	Z,ZK	4		
		,	4		
The course is an in	Theoretical Physics 1	as well as diferent	4 approaches		
The course is an in to description of o	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism	as well as diferent y examples like the	4 approaches e two-body		
The course is an in to description of o	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar	as well as diferent y examples like the	4 approaches e two-body		
The course is an in to description of o	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar ion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles	as well as diferent y examples like the	4 approaches e two-body		
The course is an in to description of a problem, the motion of the course of the cours	Theoretical Physics 1 Introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar ion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles the first part of the course of classical theoretical physics (02TEF1, 02TEF2).	as well as diferent y examples like the of mechanics. The	4 approaches e two-body e subject is		
The course is an into description of oproblem, the motion of the course	Theoretical Physics 1 Introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar ion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles the first part of the course of classical theoretical physics (02TEF1, 02TEF2). Theoretical Physics 2 Instormations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electron	as well as diferent y examples like the of mechanics. The Z,ZK d classical field the	4 approaches e two-body e subject is 4 ory in the		
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04XCESZ3 Czech for Foreigners - Beginners 3 Z 2	communication of		tne course, the st	udents will
	04XCES73		7	2
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orrect pronunciation, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and they practise frequent types				-
of dialogue. 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".	of dialogue. Th	ey 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 ex	pres 1".

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 courses 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 Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Stu	udents
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transmit general and techn	nical
nformation and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systemizes and expands language	guage
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal statement, request, a	answer
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work based on these texts.	
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 typical for tec	chnical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science and technology, French	nch
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	
04XFM3 French for Intermediate Students M3 Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subordinate and infinitive cla	auses,
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class. The paper is linked to	o the
ield of students´ future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work compiled from French a	articles
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and coherence.	
04XFMZK French for Intermediate Students Examination ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination	ation
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.	
04XFP1 French for Advanced Students P1 Z	2
FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Student	its 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 general and technical information	
o solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repeated and expanded: subj	jonctif,
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal state	
equest, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of specialization: mathem	natics,
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.	
04XFP2 French for Advanced Students P2 Z	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on given topics. Features typi	ical 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 environment. S	Special
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covers a technical /applied sci	ience
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.	
04XFPZK French for Advanced Students Examination ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and is organized according	
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 Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.	ng to
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 Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.	
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 Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading. O4XFZ1 French for Beginners Z1 Z French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in socializing and in profession	ng to 2 nal life.
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 Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading. O4XFZ1 French for Beginners Z1 Z French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in socializing and in profession 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 at elements.	2 nal life.
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04XNM2 German for Intermediate Students M2 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and car technology etc. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses). 04XNM3 German for Intermediate Students M3 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and car technology etc. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses). 04XNMZK German for Intermediate Students Examination The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment. More detailed information is to be obtained from the teacher. 04XNP1 German for Advanced Students P1 This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practical everyday communication, i.e., telephoning. 04XNP2 German for Advanced Students P2 Ζ 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 and practising formal communication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). 04XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are 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 form. The course also includes translation practice to and from German. 04XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination consisting of two parts - written and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded assessment. More detailed information is to be obtained from the teacher. Russian for Intermediate Students M1 04XRM1 The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. 04XRM2 Russian for Intermediate Students M2 Ζ 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 timetable. 04XRM3 Russian for Intermediate Students M3 Ζ 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 RZ5, however, for half of the time allotted in the timetable. 04XRMZK Russian for Intermediate Students Examination ZK The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RM1 - RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions by the teacher. 2 04XRP1 Russian for Advanced Students P1 7 The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills. 04XRP2 Russian for Advanced Students P2 Ζ 2 The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication. Russian for Advanced Students P3 The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on technical topics. 04XRPZK Russian for Advanced Students Examination 7K 4 The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RP1 - RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by the teacher. 04XRZ1 Russian for Beginners Z1 The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian. Thus it begins with mastering the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be able to read a short text with marked stress, understand its contents and summarize it. 04XRZ2 Russian for Beginners Z2 7 The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short 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. They 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.

04XRZ3 Russian for Beginners Z3 The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training various forms of reading skills and listening) and 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 understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. 04XRZ4 Russian for Beginners Z4 Z 2 The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a certain percentage of unfamiliar words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs, differences in verb patterns from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and practice oral and written communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g., Siberia), learn how to fill in forms, look up the information from the timetable, learn about Russian holidays and typical meals. 04XRZ5 Russian for Beginners Z5 The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summarizing information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 04XRZZK Russian for Beginners Examination 3 The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ1 - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher. Spanish for Intermediate Students M1 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 develops 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 imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. Spanish for Intermediate Students M3 The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be able to work with specialized texts on the Internet. 04XSM3 Spanish for Intermediate Students M3 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 Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination Spanish for Intermediate Students Examination 04XSM7K 4 The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written part, students will have obtained non-graded assessment for course SM3.Oral examination follows the written part. 04XSP1 7 2 Spanish for Advanced Students P1 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR. 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 syntax and focuses on independent written communication. 04XSP3 Spanish for Advanced Students P3 7 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 focused on written communication based on what students will need in their career. 04XSPZK Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is 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 student. 04XSZ1 Spanish for Beginners Z1 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 fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. Spanish for Beginners Students Z2 Course SZ2 is based on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis will be chosen so as to enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic. Realia of Spanish-speaking countries are also included. 04XS73 Spanish for Beginners Z3 2 The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the Spanish-speaking countries, mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral communication on a given general topic, for which the student is trained by reading texts or listening to them. Spanish for Beginners Z4 04XS74 2 The course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish speaking countries, mainly of Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication 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 2 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination. 04XSZZK Spanish for Beginners Examination 7K 3 The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination only if he/she has passed the written examination test. 12POAL Computer Algebra Lisp, representation of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, simplification, greatest common divisor, resultant, derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, substitution and pattern matching, algebraic programming, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyma, 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 interfa	ce. Hardware and	software.
Principles of opera	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi	th files. Text edito	rs: vi, emacs.
Command interpr	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard t	ools. Graphical us	er interface
X-windows. Con	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	omputer. Network	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 f	ort scientific
	and technicval computing, data analysis, data visualisation and algorithm development.		
12ZEL1	Basic Electronics 1	Z,ZK	3
The subject provide	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	iit analysis metho	ds for linear
circuits includ	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	circuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follow	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	emes of logical c	rcuits field.
18INTA	Development of internet applications	KZ	4
The lectures provid	le an overview of modern technologies for the development of web applications. Students will learn basic web languages and concer	i ots (HTML, URL, e	tc.) 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	to more advanced	I. The course
	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav	/aScript.	
18PJ	Programming in Java	Z,ZK	5
	This course is devoted to the Java platform and to the development of the basic types of applications for this platform.		'
18PMTL	Programming in MATLAB	KZ	4
Introducing Matlab	environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy	sis, statistics, algo	rithmization
	and geometric representation of results.		
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.		'
18PRC2	Programming in C++ 2	KZ	4
This c	ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library	
18PW	Web environment and markup languages	KZ	2
The course intre	oduces students to fundamental principles and best practices for web design with respect to technical functionality, informational valu	ı ıe, readability and	usability.
18ZALG	Basics of Algorithmization	Z.ZK	4
This course is	devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	,	nplexity.
18ZPRO	Basics of Programming	7	4
	ntended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	nming and with th	1 -
	programming language.	.g	- ,
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
1 V -4	Filysical education		

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-20, time 04:10.