Study plan

Name of study plan: Mathematical Engineering - Mathematical Physics

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

Name of the block: Compulsory courses in the specialization Minimal number of credits of the block: 0 The role of the block: PS

Code of the group: BSPMIMF1 Name of the group: BS P_MIB MF 1st year Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 13 courses Credits in the group: 0 Note on the group: Podmínkou skládání zkoušky 01MANZ je získání zápočtu z 01MAN.

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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02DEF1	History of Physics 1 Igor Jex Martin Štefa ák Igor Jex (Gar.)	Z	2	2+0	Z	PS
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.)	Z,ZK	6	4+2	L	PS
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		PS
01LALZ	Linear Algebra 1, exam Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		PS
01LAL2	Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		PS
01MAN	Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Miroslav Kolá, Edita Pelantová, Maksym Dreval Edita Pelantová Maksym Dreval (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics David B e Antonín Hoskovec David B e (Gar.)	Z	4	4+2	Z	PS
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David B e , Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David B e (Gar.)	ZK	2	-	Z	PS
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	PS
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	PS

18ZPRO	Basics of Programming Maksym Dreval, Nichita Vatamaniuc, Jan Vondruška, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	z	PS
Characteristics of	the courses of this group of Study Plan: Code=BSPMIMF1 Name=	BS P_MIB N	/IF 1st yea	ar		
02DEF1	History of Physics 1				Z	2
Physics and its place in	the system of sciences. The relationship of man and nature. Natural sciences in ancient Ori	entand Greece,	Greek natur	al philosoph	ers, Aristotle	. Physics in
Helenistic period, Archin	ned. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B	runo. Copernicu	is, Kepler, G	alileo, Huyg	ens. The birth	of physics
as experimental science						
02ELMA	Electricity and Magnetism			Z	Z,ZK	6
Electric charge, Coulom	b's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric	cs. Electric curre	ent and circui	ts, conducti	vity. Basics of	f the relativity
theory. Electrodynamic f	orces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagnetic	waves, Max	well equation	ons.	
01LAL	Linear Algebra 1				Z	2
1. Vector space. 2. Linea	r dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	5. Linear mappi	ngs. 6. Matric	es of linear	mappings. 7.	Frobenius
theorem.						
01LALZ	Linear Algebra 1, exam				ZK	2
01LAL2	Linear Algebra 2			Z	Z,ZK	4
Outline: 1. Inverse matrix	k and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector	diagonalization). 4. Hermitia	in and quad	Iratic forms. 5	. Scalar
product and orthogonalit	ty. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Me	thods for calcul	ation of inver	se matrices	. 2. Methods	of calculation
	ulation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.	5. Scalar produc	t and orthog	onality. Calc	ulation of ort	hogonal
,	try exercises and examples. 7. Adjoint operators.					
01MAN	Calculus 1				Z	4
Basic calculus (real anal	lysis, functions of one real variable, differential calculus).					
01MANZ	Calculus 1, exam				ZK	4
01MAN2	Calculus 2			Z	I,ZK	8
1. Continuation of differe	ential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence	e, operations or	n series, abs	olute and co	onditional con	vergence 3.
Real and complex power	r series, the Cauchy-Hadamard theorem, expansion of function into power series, summatio	n of infinite serie	es. 4. Theory	of integrals:	primitives, de	efinite integral
(Riemann definition), teo	chniques of integration and application of integrals, Generalized Riemann integral					
02MECH	Mechanics				Z	4
	physical quantities and units. Kinematics of a particle, basic types of motion and their super				•	
	, motion in a central force field, forces in non-inertial reference frames. Mechanics of a syste	em of particles,	two-body pro	blems, part	icle collisions	. Mechanics
of a rigid body, rotation.						
	Mechanics - Examination				ZK	2
The content of the subje	ct is the examination according to the plan of studies.					
00PT	Preparatory Week				Z	2
	Heat and Molecular Physics				Z,ZK	4
Thermal expansion of m	aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and per	etration; 1st and	d 2nd thermo	dynamic pr	inciple, ideal	and real gas,
entropy; non-chemical sy	stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials;	kinetic theory: N	laxwell's velo	ocity distribu	ition,equiparti	ition theorem.
18ZPRO	Basics of Programming				Z	4
This course is intended	mainly for students with little or no experience in programming. It familiarizes the students w	ith the basic co	ncepts in pro	arammina a	and with the F	Python
programming language.	,			3 . 3		,

Code of the group: BSPMIMF2

Name of the group: BS P_MIB MF 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 8 courses Credits in the group: 0

Note on the group:

Předmět 02TEF1 lze absolvovat až po absolvování předmětu 02MECHZ. Předmět 02TEF2 lze absolvovat až po absolvování předmětů 02ELMA a 02TEF1

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
01DIFR	Differential Equations Michal Beneš Michal Beneš Michal Beneš (Gar.)	Z,ZK	4	2P+2C	L	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
02TEF1	Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.)	Z,ZK	4	2+2	Z	PS
02TEF2	Theoretical Physics 2 Petr Novotný, Filip Petrásek Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	PS
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS

Characteristics of the courses of this group of Study Plan: Code=BSPMIMF2 Name=BS P_MIB MF 2nd year		
01DIFR Differential Equations	Z,ZK	4
The course contains introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics	of the existence th	eory, solution of
linear types of equations and introduction in the theory of boundary-value problems.		
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.		
01ANA4 Mathematical Analysis A 4	Z,ZK	9
Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.		
01NMA1 Numerical Mathematics 1	ZK	4
The course introduces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a g	ood understanding	of the root of
theoretical methods.		
02TEF1 Theoretical Physics 1	Z,ZK	4
The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formal	isms as well as difer	rent approaches
to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elemen		
problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral princip	les of mechanics. T	The subject is
the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		
02TEF2 Theoretical Physics 2	Z,ZK	4
Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics a		-
Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, ele	ctromagnetic radiat	tion in the dipole
approximation.	r	
02TSFA Thermodynamics and Statistical Physics	Z,ZK	4
Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Cl		
Basics of many body description from a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-cano	nical ensemble, Fer	rmi gas, models
of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.	r	
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: pola		
coherence. Geometrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de E	sroglie waves, the S	chrodinger
equation, stationary states and spectra of finite systems.		

Code of the group: BSPMIMF3 Name of the group: BS P_MIB MF 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 Zkoušku z předmětu 01RMAF lze skládat až po složení všech zkoušek z Matematické Note on the group:

analýzy a Lineární algebry. Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Bachelor Thesis 1** 02BPMI1 7 5 0P+5C 7 PS David Krej i ík Libor Šnobl (Gar.) **Bachelor Thesis 2** 02BPMI2 Ζ 10 0P+10C L PS David Krej i ík Libor Šnobl (Gar.) Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.) 01FKO Z,ZK 3 2+1PS **Functional Analysis 1** 01FANA1 Z,ZK 5 2P+2C PS Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.) **Functional analysis 2** 01FAN2 Z,ZK 5 2P+2C PS Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.) **Geometric Methods in Physics 1** 02GMF1 Z,ZK 4 2+2 L PS Libor Šnobl Martin Štefa ák Libor Šnobl (Gar.) **Quantum Mechanics 1** Ζ 02KM1 6 4P+2C Z,ZK PS Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.) Quantum Mechanics 2 02KM2 Z.ZK 6 4P+2C L PS Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.) **General Relativity** 02OR ΖK 3 3+0 L PS Old ich Semerák Boris Tomášik Boris Tomášik (Gar.) **Equations of Mathematical Physics** 01RMAF Z,ZK 7 4P+2C PS Václav Klika Václav Klika (Gar.) **Bachelor Seminar** 01BASE Ζ 1 0P+2S PS Pavel Strachota Pavel Strachota (Gar.) Introduction to Particle Physics 02UCF Z,ZK 4 2P+2C Ζ PS Zden k Hubá ek Zden k Hubá ek Zden k Hubá ek (Gar.)

Characteristics of the courses of this group of Study Plan: Code=BSPMIMF3 Name=BS P_MIB MF 3rd year 02BPMI1 **Bachelor Thesis 1** Ζ 5 The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common regular meetings and discussions. 02BPMI2 **Bachelor Thesis 2** Ζ 10 The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common regular meetings and discussions.

01FKO	Functions of Complex Variable	Z,ZK	3
The course starts from o	utlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable ar	e explained in deta	ail: the derivative
of a complex function a	nd the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Ca	auchy's integral the	eorem, Morera's
theorem, roots of a holo	morphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy	estimates, Lauren	nt series, residue
theorem.			
01FANA1	Functional Analysis 1	Z,ZK	5
01FAN2	Functional analysis 2	Z,ZK	5
The course aims to pre	sent selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of	perators and thei	r spectrum,
Hilbert-Schmidt operate	rs, spectral decomposition of bounded self-adjoint operators.		
02GMF1	Geometric Methods in Physics 1	Z,ZK	4
Foundations of geomet	ic methods in physics on manifolds. Differential forms.		
02KM1	Quantum Mechanics 1	Z,ZK	6
Abstract: The lecture de	scribes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as	well as its time ev	/olution. Besides
that it includes descript	on of observable quantities by operators in the Hilbert space and calculation of their spectra.		
02KM2	Quantum Mechanics 2	Z,ZK	6
Abstract: The lecture ex	pands the introduction to quantum mechanics with more general formalism of quantum theory, approximate methods and pa	th integral. It sumr	marizes the
terminology and metho	ds used in various applications of quantum mechanics and prepares the students for an effective scientific research and further	study, in particula	ar, of the modern
formulations of quantur	n field theory.		
02OR	General Relativity	ZK	3
Introduction to general	heory of relativity: principle of equivalence and principle of general covariance, parallel transport and geodesic equation, gra	vitational redshift.	Curvature and
Einstein's gravitational	aw. Schwarzschild solution of the Einstein equations, homogeneous and isotropic cosmological models.		
01RMAF	Equations of Mathematical Physics	Z,ZK	7
The subject of this cour	se is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integra	al transformations	, and solution of
partial differential equat	ions (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01BASE	Bachelor Seminar	Z	1
In the first part of the se	minar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal r	equirements for b	achelors degree
projects at the faculty. T	he second part is designed as a practical training for the defense of the bachelors degree project. The students give oral pre-	sentations of the c	current state of
the research results ach	ieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the pos	sibilities of improv	ing the students
performance.			
02UCF	Introduction to Particle Physics	Z,ZK	4
Abstract: Overview of n	uclear and subnuclear physics from the beginning of the 20th century until today. The lecture describes basic properties of at	omic nuclei, nucle	ar decays and
nuclear reactions. Then	it concentrates on elementary particle physics. It reviews basic properties of elementary particles and fundamental interaction	ns leading to the	formulation of
the so-called Standard	Model of elementary particles. The lecture contains the overview of current particle and astroparticle experiments.		
Name of the h	lock: Compulsory elective courses		

e block: Compulsory elective courses Minimal number of credits of the block: 0 The role of the block: PV

Code of the group: BSSPOLVEDY-ANGL.PR.

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

Only one of these courses is obligatory.

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
00RET	Rhetoric Jana Ková ová Jana Ková ová Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2		PV

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

00RET Rhetoric

Ζ The course is focused on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the composition of public speech as well as to its nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an integral part of the course.

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:

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

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

04XAMZK	English for Intermediate Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two par	ts - written (100 m	in) and oral
(20-30 min). The studer	t is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English cou	rses.	
04XAPZK	English for Advanced Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability	to apply their know	wledge obtained
in the three AP courses	. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from	the student's field	d of study.
04XCESZZK	Czech for Foreigners Beginners - Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 0-	4XCESZ1,2,3 cou	rses and can
only be taken after succ	essful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
The course content is the	, he examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESM1,2,3 courses	s and can only
be taken after successf	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESP1,2,3 courses	and can only
be taken after successf	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XFMZK	French for Intermediate Students Examination	ZK	4
The content is the exan	ination as given by the study programme. The whole French programme is ended with an examination covering the contents	of FM1-FM3. The	examination
consists of a written and	d oral part and is organized according to Examination Instructions, a document available on the web.		
04XFPZK	French for Advanced Students Examination	ZK	4
The whole French prog	am is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral par	t and is organized	according to
Examination Instruction	s, a document available on the web. Assessment of the presentation is included into the examination grading.		
04XFZZK	French for Beginners Examination	ZK	3
The content is the exan	ination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination consisting of oral and written part. The examination consisting of oral and written part.	mination is ruled b	y the document
Instruction for examinat	ion. Its content covers the levels FZ1 - FZ5.		
04XNMZK	German for Intermediate Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinati	on consisting of tw	vo parts - written
and oral, which cover th	e courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assess	sment. More detail	ed information
is to be obtained from t	ne teacher.		
04XNPZK	German for Advanced Students Examination	ZK	4
The course content is the	he examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	n consisting of two	o parts - written
and oral, which cover th	e courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrade	ed assessment. M	ore detailed
information is to be obta	ained from the teacher.		

04XRMZK Russian for Intermediate Students Examination	ZK	Λ				
		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 RM1						
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct	tions by the teach	er.				
04XRPZK Russian for Advanced Students Examination	ZK	4				
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	ledge and skills a	cquired in RP1				
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruction	ons by the teache	r.				
04XRZZK Russian for Beginners Examination	ZK	3				
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	vledge and skills a	cquired 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 instruction	ons by the teache	r.				
04XSMZK Spanish for Intermediate Students Examination	ZK	4				
The course content is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the w	ritten part, studen	ts will have				
obtained non-graded assessment for course XSM3. Oral examination follows the written part.						
04XSPZK Spanish for Advanced Students Examination	ZK	4				
The course content is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequis	ite for admission t	o oral part is				
aving passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan of the student.						
04XSZZK Spanish for Beginners Examination	ZK	3				
The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral of	the course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination only if he/she has					
passed the written examination test.						

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

Code of the group: BSPMIMFV Name of the group: BS P_MIB MF Optional courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
01ALGE	Algebra Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.)	Z,ZK	6	4+1		V
01TA	Algebra and Calculus in Applications Lubomíra Dvo áková, Edita Pelantová Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V
02DRG	Differential Equations, Symmetries and Groups Libor Šnobl Martin Štefa ák Libor Šnobl (Gar.)	Z	4	2+2	Z	V
01DIM1	Discrete Mathematics 1 Lubomíra Dvo áková, Edita Pelantová, Zuzana Masáková Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	z	v
01DIM2	Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.)	Z	2	2P+0C	L	v
01DIMA3	Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
02FYS1	Physical Seminar 1 Martin Štefa ák Filip Petrásek (Gar.)	Z	2	0+2	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
02LCF1	Experimental Laboratory 1 Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z	2	0+2	Z	V
02LCF2	Experimental Laboratory 2 Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z	2	0+2	L	V
00MAM1	Essentials of High School Course 1 David B e Martin Stefa ák	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
02NSAD1	Simulations and Data Analysis Tools 1 Zden k Hubá ek Zden k Hubá ek Zden k Hubá ek (Gar.)	Z	2	2P+0C	Z	V
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	V
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	V

		1	1	1 1		1
02SMF	Seminar of Mathematical Physics Martin Štefa ák Ladislav Hlavatý (Gar.)	Z	2	0+2	Z	V
01SSM1	Seminar of Contemporary Mathematics 1 Mat j Tušek Edita Pelantová (Gar.)	Z	2	0+2	Z	V
02STR	Special Theory of Relativity David Be Martin Štefa ák David Be (Gar.)	ZK	2	2+0	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
01TOP	Topology estmír Burdík estmír Burdík estmír Burdík (Gar.)	ZK	2	2+0	Z	V
14TED	Creating Electronic Documents Aleš Materna, Ji í Martin ík Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
02UFEC	Introduction to Elementary Particle Physics Jaroslav Biel ik, Marek Matas Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	2+0	Z	V
11UFP	Introduction to Solid State Physics Petr Kolenko Petr Kolenko Petr Kolenko (Gar.)	ZK	3		L	V
11UFPLN	Introduction to Solid State Physics Petr Kolenko	ZK	2	2+0	L	V
02UKP	Introduction to Curves and Surfaces	Z	2	1+1	L	V
02UKP1	Introduction to Curves and Surfaces Ladislav Hlavatý Martin Štefa ák Ladislav Hlavatý (Gar.)	Z	2	1P+1C	L	V
02UKP2	Introduction to Curves and Surfaces 2 Ladislav Hlavatý Martin Štefa ák Ladislav Hlavatý (Gar.)	Z	2	1P+1C	Z	V
02UKT	Introduction to Quantum Theory Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.)	Z	2	2+0		V
12UMF	Introduction to Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.)	Z	3	2+1	L	V
12UNXAP	Introduction to UNIX Milan Kucha ík Milan Kucha ík (Gar.)	Z	2	1P+1C	L	V
18ZALG	Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Jan Tornsa, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	v
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Martin Štefa ák Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	v
02ZM2	Foundations of Physical Measurements 2 Petr Chaloupka Martin Štefa ák Petr Chaloupka (Gar.)	KZ	4	0P+4L	L	V
Characteristics of the	e courses of this group of Study Plan: Code=BSPMIMFV Name	=BSPMIBN	IF Ontio	nal cours	es	
	gebra				,ZK	6
Firstly, the Peano axioms ar	e treated in detail. Elements of the set theory cover only: equivalence and subvalence, t			em, the axior	n of choice a	-
	linals and cardinals. Further standard algebraic structures are addressed: semigroups, chapters are devoted to divisibility in integral domains and to finite fields.	monoids, groups,	rings, integ	gral domains,	principal ide	al domains,
	gebra and Calculus in Applications				ZK	2
	on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calle	es concrete mathe	ematics. The	eorems are m	otivated by p	oroblems from
	strated on problems from informatics. story of Physics 2				Z	2
1	echanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, c	orpuscular and w	ave approa	ch. Electricity	1	
	ectrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its					
	nck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfo ot of Nature and Universe of today.	rd and Bonr. The	way to nucl	ear energy, E	ementary p	articles,
	fferential Equations, Symmetries and Groups				Z	4
	s to teach students computation of symmetries of the differential equations.				· · ·	
	screte Mathematics 1 elementary number theory and applications. It includes individual problem solving.				Z	2
	screte Mathematics 2				Z	2
	ecurrence relations. It includes individual problem solving.				·	
	screte Mathematics 3 ems and methods of their solving from various parts of discrete mathematics. The semi	nar includes indiv	idual proble	1	ZK ones own ch	2 noice from the
given literature.	nucieal Cominer 4			1	7	
	nysical Seminar 1 letailed study of interesting physical problems. It should help students to deeper unders	standing of funder	nentals of r	hvsics prese	Z nted in the c	2 ourse of
	re chosen, studied and presented by the students themselves, with the possibility to us	-	-			
	nglish Conversation				Z	1
-	student's communication skills acquired throughout their previous studies. It aims to in	-				-
-	communication situations and will master their communication strategy. They will also p will be trained to express their ideas clearly and according to current English usage, ar		-		ter follow and	d participate
				-,		

n discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more confident speaker.						
02LCF1	Experimental Laboratory 1	Z	2			
Cavendish experiment.	Cavendish experiment. Elasticity Thermal capacities. Electric measurements, Acoustic. Oscillations.					
02LCF2	Experimental Laboratory 2	Z	2			
Electric and magnetic field	eld, microwaves, Xray and gamma rays, geometric optics		'			

00MAM1 Esse	entials of High School Course 1	Z	1
	thematical concepts and methods used in the introductory physics course.	2	I
00MAM2 Esse Review of basics of high school	entials of High School Math Course 2 of mathematics.	Z	1
	ulations and Data Analysis Tools 1 of high energy elementary particle collisions. ROOT and Pythia programs.	Z	2
	eral Chemistry 1	7	3
	quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practica	-	-
solved in exercises.			, ,
15CH2 Gen	eral Chemistry 2	Z,ZK	3
	of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Usin		
	is not restricted only to chemical processes is documented. The significance and practical use of explained principles a	re illustrated by e	examples solved
in exercises.	pahility and Statistica	7 71	4
	pability and Statistics ity theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	Z,ZK	•
	om variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	-	-
	basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are expl		
02SMF Sem	inar of Mathematical Physics	Z	2
	to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm	nent will present	simple tasks
concerning their scientific activ	vities that could become the topics of the student?s bachelor theses in the next year		
	inar of Contemporary Mathematics 1	Z	2
This seminar provides a differe	ent approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic of	ourses of mather	natics.
	cial Theory of Relativity	ZK	2
	ge of classical, non-quantum mechanics of the special theory of relativity fundamentals.		
	sical Education	Z	1
TV-2 Phys	sical Education	Z	1
TV-3 Phys	sical education	Z	1
TV-4 Phys	sical education	Z	1
	blogy	ZK	2
	matization and deepening the knowledge of general topology.	I	
14TED Crea	ating Electronic Documents	Z	2
	esenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenta	tions and entire d	documents in ar
office suite.			
02UFEC Intro	duction to Elementary Particle Physics	Z	2
The course provides an easily	accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject a	re presented.	
11UFP Intro	duction to Solid State Physics	ZK	3
The course contains the funda	mentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to s	solve engineering	problems.
11UFPLN Intro	duction to Solid State Physics	ZK	2
	to introduce the undergraduate students to the study of the solid state physics.		
	duction to Curves and Surfaces	Z	2
-	troduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f		
	d. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential pa	irt of the lecture a	ire the examples
calculated by students	duction to Cumico and Cultance	7	2
	duction to Curves and Surfaces troduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f	Z	2
-	d. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential pa		
calculated by students.			
-	duction to Curves and Surfaces 2		2
		Z	
	ء 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental	Z I form is introduc	
		1	
the mean and Gaussian curvat	e 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental ture. Finally, the usual concepts of Riemann geometry are introduced.	1	
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the mean and Gaussian curvat 02UKT Intro The aim of the lecture is to intr 12UMF Intro	e 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental ture. Finally, the usual concepts of Riemann geometry are introduced.	I form is introduc	ed, leading to
the mean and Gaussian curved 02UKT Intro The aim of the lecture is to intr 12UMF Intro The course is intended to be a in a computational laboratory.	e 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental ture. Finally, the usual concepts of Riemann geometry are introduced. Induction to Quantum Theory Induce the basic principles of quantum theory and its interpretation on simple examples. Induction to Modern Physics	I form is introduc	ed, leading to
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the mean and Gaussian curvat O2UKT Intro The aim of the lecture is to intro 12UMF Intro The course is intended to be a in a computational laboratory. 12UNXAP Intro Computer and operating system Principles of operating system Command interpreter (shell) back X-windows. Computer network hardware sharing, mail, scp, et 18ZALG Basi This course is devoted to select 02ZM1 Four The lecture is designed for stur- other branches. The goal of the basic habits of work in a physic 02ZM2 Four	a 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental ture. Finally, the usual concepts of Riemann geometry are introduced.	I form is introduce Z Z A part of the counce Each Hardware and with files. Text each tools. Graphical for computer. Network Z,ZK Eagorithm comp ZK it can be attende ta on a PC. Stud KZ	ed, leading to 2 3 urse is delivered 2 I software. ditors: vi, emacs. user interface a services: 4 dexity. 2 d by students of leants learn the 4
the mean and Gaussian curvat O2UKT Intro The aim of the lecture is to intro 12UMF Intro The course is intended to be a in a computational laboratory. 12UNXAP Intro Computer and operating system Principles of operating system Command interpreter (shell) back X-windows. Computer	e 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental ture. Finally, the usual concepts of Riemann geometry are introduced. duction to Quantum Theory oduce the basic principles of quantum theory and its interpretation on simple examples. oduction to Modern Physics concise introduction to modern / nonclassical physics for students who have already had basic classical physics course oduction to UNIX ms. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface s. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working ash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard is. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a co tc. Network applications cted algorithmization cted algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the ndations of Physical Measurements 1 dents of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, is a lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired da cs lab.	I form is introduc Z Z A part of the cou ce. Hardware and with files. Text ec tools. Graphical computer. Network Z,ZK e algorithm comp ZK it can be attende ta on a PC. Stud KZ it can be attende	ed, leading to 2 3 urse is delivered 2 I software. ditors: vi, emacs user interface a services: 4 dexity. 2 d by students of lents learn the 4 d by students of

Credits in the group: 0

Note on the group:

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

04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	v
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
Characteristics of t	he courses of this group of Study Plan: Code=BSPJAZYKYZ	AP Name=BS P	jazyky za	ар		
04XAM1 E	English for Intermediate Students M1			-	Z	2
	r students who have successfully completed the full secondary school English lang es (CEFR). It provides an introduction into English for Specific and Academic Purp					
	en communication situations. Thus it covers topics related to the student's life and				-	
	of grammar issues used in EAP.					
I	English for Intermediate Students M2				Z	2
	the student to have completed the AM1 course. It develops their skills for work with		-	-	-	
	ESP and EAP (e.g., definition, existence and classification of phenomena, object de	escriptions). Part of the	course is als	o guided writ	ting. If necess	ary, gramma
revision is included. 04XAM3	English for Intermediate Students M3				Z	2
	skills that enable students to cope with features typical of professional style. Increasing	ng attention is paid to de	evelopina su	l btechnical vo		
-	onal texts. Great emphasis is placed on distinguishing different levels of formal and				-	-
	lso includes studying abstracts and rules for writing them as well as basic rules for	preparing and giving a	short prese	ntation on a	chosen topic	related to th
student's field.						

04XAP1 English for Advanced Students P1

The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application, polite request). If necessary, revision of selected grammar topics is included.

Ζ

2

04XAP2	English for Advanced Students P2	Z	2			
The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According t						
the students' needs it c	the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various types					
of descriptions, and, if p	of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials.					
The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and						
paragraph structure, linl	king, cohesion and coherence in texts.					

04XAP3	English for Advanced Students P3	Z	2
The AP3 course is base	ed on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text.	. It includes training	oral and written
communication skills ar	nd functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, wr	iting an abstract) a	ind, if possible,
	t on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal la	nguage both in ora	al and written
communication.			
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
s a	for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic a	0	
	and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communica covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	ation in the most co	ommon everyday
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
	munication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and		_
	pics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	oonjuguton oyoto	
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
	elops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses		
	tion and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to proc		-
frequent types of dialog	ue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers rou	ughly lessons 5-7 ir	n eština expres
1.			
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
	n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending t	he student's vocat	oulary for various
social situations.			
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
	e topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and re	ading skills and tra	ains the student
-	ion abbreviations, abbreviated words, and mathematical terms and formulas.	Z	2
04XCESM3	Czech for Foreigners - Intermediate 3 morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espe		
	oping the student's writing skills.	cially locused off s	stylistics and
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common E		
	evision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of		
	e of engineering and professional communication, both in spoken and written form. The topics include University Studies and		-
includes communication	n with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extends the	e student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical	and specialist texts	s placing greater
emphasis on individual			
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentat	ion, and, finally, pro	esentation of the
	ng skills necessary for professional communication are trained.		-
04XFM1	French for Intermediate Students M1	Z	2
	M The objective of this three-semester course is to improve and further develop communication in the French language in b icate in social interaction and in academic, scientific and professional environment. They will be able to use the language to t		
	e problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, s	-	
	s study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, pe		
	Iture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, worl		
04XFM2	French for Intermediate Students M2	Z	2
	¹ M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	e texts, features typ	bical for technical
and scientific language	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sc	ience and technolo	ogy, French
scientists, artists and a	rchitects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	on 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-		
	specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative of dge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and	-	n French articles
04XFP1	French for Advanced Students P1	Z	2
	prench for Auvanced Students PT he objective of this three-semester course is to improve and further develop communication in the French language in both w	1	
	e in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit ger		
	The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are i		
passé composé-imparfa	ait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transaction	al letters, CV, pers	onal statement,
request, answer to an a	dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top	pics of specialization	on: mathematics,
internet, physics, chem	istry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2	French for Advanced Students P2	Z	2
	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication	on given topics. Fe	atures typical of
	communication are stressed (passive voice, nominalization, word formation).		-
04XFP3	French for Advanded Students P3	Z	2
	on 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 cc rk compiled from 3 French sources. Preparation of several set topics for oral examination.	wers a technical /a	ipplied science
04XFZ1	French for Beginners Z1	Z	2
	prencipion beginners 2 in 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		
-	ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be ab	-	-
	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		-
(Francouzština pro za	áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions	s, personal informa	ation, asking and
giving the directions, si	mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia	ation and grammar	

04.WF22 French for Boginnets 22 2 2 04.WF22 French for Boginnets 22 2 04.WF23 Image: an experiment of the instructure spectrum of the instrum of the instructure spectrum of the instrum of the instr	The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		<u> </u>				
French e Beginners. Additional pages and skille are litter here in the textools: Equations, lessen 1.9. electronices, nuclearing, agenerent, apelogy, harvers, treading, and e Pranch, lood e generasions or correnunciations. Specific heads source of the desire textories and the desire and the second seco		Z	2				
There have the memory of France, body agrees on a will, web, notice prohebotic of paratices of Stess on ner communication. Specific tiples diverses of France, hor Beginners 23. CHYPE23 [French for Beginners 23. CHYPE24 The contrast bills on the control of the memory of the memory of the contrast bills on the control of the memory of the contrast bills on the control of the memory of the contrast bills on the control of the memory of the memory of the memory of the control of the memory of the control of the memory of the memo							
there dashs machine work? A we spreasors oncomptige to study, here of ulwarshy and Faculty.							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
The curse table upon ¹² Z. Easile inguistic inguistic invokelege and stalls are benefaced. The cursents is given by vession 41 - 18 of the textbook Penets - Prevance - Prevanc		Z	2				
promunation practice. Nearing overs short adapted states of general inferent link: and link exposite states.		1 1					
04XF23 [French for Beginners 24 2 2 04xres/24 [French for Beginners 724 [Z] 2 04xres/24 [French for Beginners 724 [Semistric of 717] [Semistri	Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for i	nformation and lou	d as part of				
The outree builds up on F23. Basic inguistic sconeges and skills are further developed. Data communication and reading skills are protected. The outree intervent bit Explanement of the science will be taken the beat previne of the science intervent bit and previne the beat prevines. The stress science is the science is an explanement of the science is the science is a science is the science is the science is a science is the science is the science is a science is the science is a science is the science is the science is the science is the science is a science is the science is th	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.						
teaces 10 - 23 of the technol. From the Beginners, and a expanded with topics and functions from other materials. Reading to developed from the technologe. There is the technology and the technology and the technology and the technology. The technology and the technology. The technology and technology and technology. The technology and technology and technology and technology and technology and technology and technology. The technology and te	04XFZ4 French for Beginners Z4	Z	2				
Sludents of LPE. The course cover generates and specific topics: health-illines, sport, free time, environment, athdy traving in Fance, Paris, shoeping, weather, university in our control work of Narokey States and Narokey States. Text are litted every level to be added to the specific topics. The specific diverse spectra is a spectra of the specific diverse spectra is covered by issuent 24 - 28 of the leadcock. Prevad-Pravad		• ,					
contra and Fance, how to write QV, applicator, topics in methomatics, random gynycis - moderatics, informatics, internet. Z Z All four statis acquired in FZA and the unther developed, as well as echnical language. Students program a pager on a chosen popular scince (a): They present in only in the class. They consent in obtained in only materials. Topics on physics from four-term endess. Expected complexes, topical complexes, top			° °				
DAXE25 [French for Beginners 25 2 2 All to sells acquired in E24 are firth extended. Pravad-Pravdow, French for Beginnera, and a complemented from ater manaferia. Explose on explose to an explose to messauces of the extended on explose to any explose to an		opping, weather, ur	iiversity in our				
At but sequined in F24 are further developed, as well as lechnical lenguage. Students proper a shores nopplar science lechnicate, and expected testings are 2 as of the students of PrinterPravidors, Printe		7	2				
general contents is covered by lessons 24 - 26 of the textbock: Preuds-P		1 – 1	_				
notes, success of Firench solance and technology, information about France. Grammar is systemized and complemented with systex (subordinate clauses, typical conjunctions, subjunctive clauses, ground, passive. dAXMM2 Gramma for Intermediate Students M2 Z 2 Constructive clauses of the more comparison granutural astructures and their application in communication based on technical texts, such as the relation between technology, etc. Students phenomena important for professional discourse (participles, relative clauses). dAXMM3 Gramma for Intermediate Students M1 in the German farguage. The course topic stepping in bight disclause, physicitis, and the fundamentals of the relative acting for the students 'skills in the German farguage. The course topic stepping to hight disclause in both the Crach Regulation and terrators (s.g. the passive) and word formation processes (e.g. importance) or stepping (see). In the lexical part, to course topic stepping to hight disclause and understandability. CAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 DAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 DAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 CAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 DAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 DAXMM3 Gramma for Intermediate Students M3 Z 2 C 2 DAXMM3 Gramma for Intermediate Students M3 C 2 2 C 2 DAXMM3 Gramma for Intermediate Students M3 C 2 2 C 2 DAXMM3 Gramma for Intermediate Students M3 C 2 2 C 2 DAXMM3 Gramma for Advanced Students P1 The course introduction communication the metasical concentesses and understandability. DAXMM3 Gramma for Advanced Students P2 The course introduction with a status and the status on the existion in and writen communication. The course systematically revised participate phenomena important tor protessional discourse (participate, relative clause). DAXMM9 Gramma for Advanced Students P2 The course introduction within the course within the status on the existion in and trelative status on the existion							
QAXMN2 Certam for Intermediate Students M2 Z The course introduces other more comparison of a structures and ther application in communication based on technical texts, such as the relation of thermestical application in communication the output structures and ther application in communication. The course systematically review other more comparison and structures (e.g. the passive and provide the output structures) in ord and written communication. The course systematically review other passive and provide the output structures (e.g. the passive and vorted from the output structures (e.g. the passive and vorted from the output structures (e.g. the passive and the structures) is and at course to even portex, entropy is a higher exclusion in both the Carch Regulation and Germany current or entropy of the structures and ther application in communication theore attracts and the indication entropy of the structures and there application in communication theore attracts. Such as the relation and Germany current or indiver dipole and global and global course operations and phrases needed to chernists, mathematicines, the theorement text structures and there application in communication theorem text structures and the application in communication theorem text structures and the application in communication. The course systematically reviews ender dipole and global and appropring of the course introduces and theorem text structures and the application in communication. The course systematically reviews ender dipole and global and appropring of the structures and there application in communication. The course systematically reviews ender dipole and global and appropring of the course involved and the second reviews and theorem application in communication. The course systematical structures and and written communication. The course systematically reviews are tractedine applicatin tractices and paplicatin application and and writt							
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04XRZ1 Russian for Beginners Z1	Z	2
The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus	-	-
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	king). Students wil	be able to read
a short text with marked stress, understand its contents and summarize it.	7	2
04XRZ2 Russian for Beginners Z2	Z	2 Students will be
The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short s able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will		
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		vocabulary and
04XRZ3 Russian for Beginners Z3	Z	2
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for trai		
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		
understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.		
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	-	
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver		-
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),		-
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	Z	2
The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understa	, nding, extracting a	ind summarizing
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C	ommunication ski	Is are trained on
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication	on (verbal adjectiv	es, participles,
passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite require	est, etc.)	
04XSM1 Spanish for Intermediate Students M1	Z	2
The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semi	ester course deve	ops standard
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega	ative form of the in	nperative, and
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts of	or listening to then	1.
04XSM2 Spanish for Intermediate Students M3	Z	2
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	Z	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acad	lemic style. They w	vill 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 a	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.		
04XSP1 Spanish for Advanced Students P1	Z	2
Course concentrates on 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.	-	2
04XSP2 Spanish for Advanced Students P2	Z	2
Course XSP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and s	yntax and focuses	on independent
written communication.	7	0
04XSP3 Spanish for Advanced Students P3	Z	2
Course XSP3 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 based on what students will need in their career	focused on writter	communication
based on what students will need in their career.	7	2
04XSZ1 Spanish for Beginners Z1	Z	2
Course XSZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and func will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spani	-	
04XSZ2 Spanish for Beginners Students Z2	Z	2
Course XSZ2 is based on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrie		
Republic. Realia of Spanish-speaking countries are also included.	s and others such	as the Czech
04XSZ3 Spanish for Beginners Z3	Z	2
This course builds upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include	1	
and cultural context of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, includ		
indefinido, pretérito imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topic		
through targeted reading and listening activities.		
04XSZ4 Spanish for Beginners Z4	Z	2
The course is based on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spa	-	
Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of		-
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.	, , u	
04XSZ5 Spanish for Beginners Z5	Z	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanis	-	
part, the general Spanish course based on the course book will end with a written and oral examination.	· · · · · · · · · · · · · · · · · · ·	

List of courses of this pass:

Code	Name of the course	Completion	Credits
00MAM1	Essentials of High School Course 1 Students are introduced to mathematical concepts and methods used in the introductory physics course.	Z	1
00MAM2	Essentials of High School Math Course 2 Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
OORET	Rhetoric	 	1
	sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	. –	•
	onverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar		-
01ALGE	Algebra	Z,ZK	6
Firstly, the Peano axi	ioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the	axiom of choice an	d equivalen
statements, definitio	on of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral don fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.		al domains,
01ANA3	Mathematical Analysis A 3 Function sequences and series, introduction to topology and metric spaces, differential calculus of functions of several varial	Z,ZK	9
01ANA4	Mathematical Analysis A 4	Z,ZK	9
	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.	1	
01BASE	Bachelor Seminar	Z	1
	seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal req		-
	ty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral prese		
ne research results a	achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possib performance.	suities of improving	ine student
01DIFR	Differential Equations	Z,ZK	4
1	introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of t	1 '	-
The course contains	linear types of equations and introduction in the theory of boundary-value problems.		, 501011011 0
01DIM1	Discrete Mathematics 1	Z	2
	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.		2
01DIM2	Discrete Mathematics 2	Z	2
01DIM2	The seminar is devoted to recurrence relations. It includes individual problem solving.	-	-
01DIMA3	Discrete Mathematics 3	ZK	2
	v problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solvir given literature.	1	-
01FAN2	Functional analysis 2	Z,ZK	5
	o present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed o Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.		-
01FANA1	Functional Analysis 1	Z,ZK	5
01FKO	Functions of Complex Variable	Z,ZK	3
	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are e	1 '	ne derivative
	n and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauc		
heorem, roots of a ho	olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy est theorem.	imates, Laurent se	ries, residue
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2. L	Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of theorem.	linear mappings. 7.	Frobenius
01LAL2	Linear Algebra 2	Z,ZK	4
	e matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian ar		
•	nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse mate B. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonali		
041 41 7	complements. 6. Geometry exercises and examples. 7. Adjoint operators.	71/	
01LALZ	Linear Algebra 1, exam	ZK	2
01MAN	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).	Z	4
01MAN2	Calculus 2	Z,ZK	8
	ifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ		0
01MANZ	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	ZK	4
01MANZ 01NMA1	Calculus 1, exam		
	Numerical Mathematics 1	ZK	4
1	ces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good	a understanding of	
The course introduc	theoretical methods.		
The course introduc	theoretical methods. Probability and Statistics of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	Z,ZK	4

01RMAF			1
	Equations of Mathematical Physics	Z,ZK	7
The subject of this c	ourse is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tra- partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	ansformations, ar	nd solution o
01SSM1	Seminar of Contemporary Mathematics 1	Z	2
	ovides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic		1
01TA	Algebra and Calculus in Applications	ZK	2
Ne illustrate method	s based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems a		
	informatics and they are illustrated on problems from informatics.		
01TOP	Тороlоду	ZK	2
	The aim of lecture is the systematization and deepening the knowledge of general topology.		
02BPMI1	Bachelor Thesis 1	Z	5
The bachelor project	is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj	ect supervisor du	ring commo
	regular meetings and discussions.	7	10
02BPMI2	Bachelor Thesis 2 is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj	—	-
	regular meetings and discussions.		
02DEF1	History of Physics 1	Z	2
Physics and its pla	ce in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	sophers, Aristotle	. Physics in
Helenistic period, /	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, H	luygens. The birt	n of physics
	as experimental science. Newton and his work.		_
02DEF2	History of Physics 2	Z	2
	classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		
-	anism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. ysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear en		
and relativistic pr	standard model. The concept of Nature and Universe of today.	ioigy, Liemenialy	רסיויויטיבא,
02DRG	Differential Equations, Symmetries and Groups	Z	4
02DITO	The purpose of the lecture is to teach students computation of symmetries of the differential equations.	-	
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Col	lomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond		the relativit
theory. E	lectrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, N	Maxwell equations	6.
02FYS1	Physical Seminar 1	Z	2
	evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics		
	nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laboration in the problems are chosen.		
02GMF1	Geometric Methods in Physics 1	Z,ZK	4
	Foundations of geometric methods in physics on manifolds. Differential forms.		
02614	Quantum Machanica 1	7 71/	6
02KM1	Quantum Mechanics 1	Z,ZK	6 tion Beside
	Quantum Mechanics 1 describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we that it includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.		-
	describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as well		-
Abstract: The lecture	describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we that it includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.	Il as its time evolu Z,ZK	tion. Beside
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02TER	Heat and Molecular Physics	Z,ZK	4
	n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynami		-
	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis		on theorem.
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatel		
Basics of many bo	dy description from a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical of spirate and the block body registion). The Beltzmann equation is used to discusses simple transport phenomena	ensemble, Fermi g	jas, models
021105	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.	774	4
02UCF	Introduction to Particle Physics v of nuclear and subnuclear physics from the beginning of the 20th century until today. The lecture describes basic properties of atom		4
	Then it concentrates on elementary particle physics. It reviews basic properties of elementary particles and fundamental interactions		-
	the so-called Standard Model of elementary particles. The lecture contains the overview of current particle and astroparticle expe	0	
02UFEC	Introduction to Elementary Particle Physics	Z	2
	se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su	ubject are presente	
02UKP	Introduction to Curves and Surfaces	Z	2
	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f	or the curves are ir	
Frenets formulae a	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part	of the lecture are th	e examples
	calculated by students		
02UKP1	Introduction to Curves and Surfaces	Z	2
-	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f		
Frenets formulae a	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part	of the lecture are th	e examples
	calculated by students.		-
02UKP2	Introduction to Curves and Surfaces 2	Z	2
I ne lecture exten	ds the course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental the many and Causaian autorative. Finally, the usual apparents of Piamana geometry are introduced.	form is introduced,	leading to
	the mean and Gaussian curvature. Finally, the usual concepts of Riemann geometry are introduced.	7	<u> </u>
02UKT	Introduction to Quantum Theory The aim of the lecture is to introduce the basic principles of guantum theory and its interpretation on simple examples.	Z	2
02VOAF		Z.ZK	6
	Waves, Optics and Atomic Physics a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza	1 ' 1	6 diffraction
	metrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro		
	equation, stationary states and spectra of finite systems.		noungoi
02ZM1	Foundations of Physical Measurements 1	ZK	2
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it (1	
other branches. T	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat	a on a PC. Student	s learn the
	basic habits of work in a physics lab.		
02ZM2	Foundations of Physical Measurements 2	KZ	4
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of		
other branches. T	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat	a on a PC. Student	s learn the
0.4.1/(0	basic habits of work in a physics lab.		
04AKS	English Conversation	Z	1 I
	evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communicator various communication situations and will master their communication strategy. They will also practise their listening skills in order t		-
	iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more cor		participate
04XAM1	English for Intermediate Students M1	7	2
	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	l Common European	
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of	•	
professional oral a	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical int	erest. Attention is a	also paid to
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more or		
and lexical items ty	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided	writing. If necessar	ry, grammar
0.42/4.140	revision is included.		
04XAM3	English for Intermediate Students M3	Z	2
	os the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	-	-
-	purse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation of		
	student's field.		
04XAMZK	English for Intermediate Students Examination	ZK	4
	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts	1 1	
(20-	30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three I	English courses.	
04XAP1	English for Advanced Students P1	Z	2
	gned for students who have successfully completed the full secondary school English language course (at least the B1 level of the C	-	
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamen	-	
	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g		
covers protessiona	l oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w	nung a Cv, letter of	application,
	polite request). If necessary, revision of selected grammar topics is included.	Z	0
04XAP2	English for Advanced Students P2	1 1	2
	based on AP1, thus extending the student's skills for working with subtachnical taxts, and over with protossional taxts of chases his		
	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen bra is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical		-
	based on AP1, thus extending the student s skills for working with subtechnical texts, and even with professional texts of chosen bra is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica id, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical	al functions (e.g., va	arious types
of descriptions, ar	s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical	al functions (e.g., va Ily more demanding	arious types g materials.

04XAP3	English for Advanced Students P3	Z	2
	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	-	
	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal langu		
also preparing a	communication.	age both in oral a	
04XAPZK	English for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a		
	courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from		
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
The course is focus	sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the st	udent's vocabulary	for various
	social situations.		
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	ops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readir	g skills and trains t	the student
0.1X050140	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
The last course r	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia lexicology and on developing the student's writing skills.	illy focused on styli	stics and
04XCESMZK		ZK	4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	I I	
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	, <u>2</u> ,0 0001000 all	a can chij
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ	bean Framework of	Reference.
It is focused partly	on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sciences and the s	ence. Students are	taught the
basics of function	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S	Student Life. Writter	n practice
	includes communication with teachers and faculty administrators.	r	
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and a	specialist texts place	cing greater
04205050	emphasis on individual work.	7	
04XCESP3	Czech for Foreigners - Advanced 3 ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	Z Z	2
The course develop	student's project. Writing skills necessary for professional communication are trained.	and, finally, present	
04XCESPZK		ZK	4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES		
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	,_,	,
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features) a	nd they will
acquire basic langu	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	in the most commo	on everyday
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	r	
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
The language and	I communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and cor	jugation system ar	nd practise
04XCESZ3	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	Z	2
	Czech for Foreigners - Beginners 3 er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	_	2 ocabulary
	inclation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce		
	ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	-	
	1.		
04XCESZZK	Czech for Foreigners Beginners - Examination	ZK	4
The course conte	ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	CESZ1,2,3 course	s 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
	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v		
	ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	-	
	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor	-	
e .	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo		
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 text	s, features typical f	or technical
and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	nce and technology	y, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub		
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-clas uture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work		
	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	-	
04XFMZK	French for Intermediate Students Examination	ZK	4
	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents of	I I	
	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
	se The objective of this three-semester course is to improve and further develop communication in the French language in both write		
	nicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general		
	FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repea aparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le		
Passe compose-III	partial, processo, the following opcome topics are covered. On versity studies in our country and in France, whiln y of italisabilitiane	, ev, personal	succindit,

internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation		
04XFP2 French for Advanced Students P2		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 g	iven tenics Feature	_
technical and scientific communication are stressed (passive voice, nominalization, word formation).	iven topics. I eature	s typical of
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 en	I – I	
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover		-
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
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		
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr	-	g
04XFZ1 French for Beginners Z1	Z	2
French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soc	I – I	
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able t		
level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd	dová, French for be	ginners
(Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions, per	ersonal information,	asking and
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gram	nar.
04XFZ2 French for Beginners Z2	Z	2
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the		
French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communi	cation. Specific topi	cs covered:
How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3 French for Beginners Z3	Z	2
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravide		-
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for inf	ormation and loud	as part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.	-	
04XFZ4 French for Beginners Z4	Z	2
The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The course shows a state of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp		
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	-	
04XFZ5 French for Beginners Z5	7	2
All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They p	resent it orally in the	
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To		
notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl	auses, typical conju	inctions,
subjunctive clauses, gerund, passive.		
Subjunctive clauses, gerund, passive. 04XFZZK French for Beginners Examination	ZK	3
		-
04XFZZK French for Beginners Examination The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination Instruction for examination. Its content covers the levels FZ1 - FZ5.		-
04XFZZK French for Beginners Examination The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination for examination. Its content covers the levels FZ1 - FZ5. 04XNM1 German for Intermediate Students M1	ation is ruled by the	e document
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O4XFZZK French for Beginners Examination The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination for examination. Its content covers the levels FZ1 - FZ5. 04XNM1 German for Intermediate Students M1 The objective of the course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and si word formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repuerivonmental issues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and understance.	zation is ruled by the Z iructures (e.g. the p iblic and Germany, s, and the fundament	e document 2 assive) and current ntals of IT
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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	ZK	4
	the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c er the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded	•	
	information is to be obtained from the teacher.		o detalled
04XRM1	Russian for Intermediate Students M1	Z	2
	d for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet		
	ommunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement		
	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetal		
04XRM2	Russian for Intermediate Students M2	Z	2
	e course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	1	-
04XRM3	Russian for Intermediate Students M3 the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, how	Z	2 imp allotted
The course develops i	in the timetable.		inte allotteu
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		
	ts are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	-	
04XRP1	Russian for Advanced Students P1 ement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prac	Z	2 grammar
The entrance require	structures, understanding the fundamentals of technical language and training writing skills.		grammar
04XRP2	Russian for Advanced Students P2	Z	2
The course is based	on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	erb aspects, specific	c syntactic
	structures). Stress is put on independent oral and written communication.	7	2
04XRP3	Russian for Advanced Students P3 on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasin	∠ g. translation). The	
	previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). Th		
	study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w		
develop their subtechr	nical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics.	urately and with co	nfidence on
04XRPZK	Russian for Advanced Students Examination	ZK	4
	the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		•
	ts are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given inst	ructions by the teac	
04XRZ1	Russian for Beginners Z1	Z	2
-	s the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russiar (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	-	-
-	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it.	-	-
-	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	-	-
the Russian alphabet 04XRZ2 The second semester	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subto). Students will be a	able to read
the Russian alphabet 04XRZ2 The second semester	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtrusing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also). Students will be a Z echnical texts. Stud o develop their voca	able to read
the Russian alphabet 04XRZ2 The second semester	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subto). Students will be a Z echnical texts. Stud o develop their voca	able to read
the Russian alphabet 04XRZ2 The second semester able to communicate u 04XRZ3	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtrusing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in). Students will be a Z echnical texts. Stud o develop their voca writing. Z	able to read 2 ents will be abulary and 2
the Russian alphabet 04XRZ2 The second semester able to communicate u 04XRZ3 The course is based o	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtrusing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 in RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be). Students will be a Z echnical texts. Stud o develop their voca writing. Z g various forms of re	2 ents will be abulary and 2 eading skills
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04XSMZK The course conte	Spanish for Intermediate Students Examination ent is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the wri	ZK tten part, students	4 will have			
obtained non-graded assessment for course XSM3. Oral examination follows the written part.						
04XSP1 Course concentrate	Spanish for Advanced Students P1 as on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. of CEFR.	Z Course prerequisit	2 es: level B2			
04XSP2	Spanish for Advanced Students P2	Z	2			
	e second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta written communication.	x and focuses on i	ndependent			
04XSP3	Spanish for Advanced Students P3	Z	2			
	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu based on what students will need in their career.					
04XSPZK	Spanish for Advanced Students Examination	ZK	4			
	nt is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite ng passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan		oral part is			
04XSZ1	Spanish for Beginners Z1	7	2			
	e first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	- 1				
will be able to	o communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa	anish and will deve	op it.			
04XSZ2	Spanish for Beginners Students Z2	Z	2			
Course XSZ2 is ba	ased on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and	l lexis will be chose	en so as to			
enable them to un	derstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a	nd others such as	the Czech			
0.42/070	Republic. Realia of Spanish-speaking countries are also included.					
04XSZ3	Spanish for Beginners Z3	Z	2 the realia			
	upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include t of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including t					
	b imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics. S through targeted reading and listening activities.					
04XSZ4	Spanish for Beginners Z4	Z	2			
The course is base	d on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countrie	s, mainly of			
Spain. It pays atter	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	imperative, and su	ıbjunctive),			
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenir	-				
04XSZ5	Spanish for Beginners Z5	Z	2			
The course books	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo	r specific purposes	s. In its final			
0.4)(0.77)(part, the general Spanish course based on the course book will end with a written and oral examination.	71/				
04XSZZK	Spanish for Beginners Examination	ZK	3			
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex- passed the written examination test.	amination only if he	e/sne nas			
11UFP	Introduction to Solid State Physics	ZK	3			
	ains the fundamentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to s		-			
11UFPLN	Introduction to Solid State Physics	ZK	2			
	The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.		-			
12UMF	Introduction to Modern Physics	Z	3			
	ded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A	part of the course	is delivered			
	in a computational laboratory.					
12UNXAP	Introduction to UNIX	Z	2			
	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfact					
	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with					
	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a co	-				
	hardware sharing, mail, scp, etc. Network applications		501 11005.			
14TED	Creating Electronic Documents	Z	2			
	ting and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentation	- 1				
	office suite.					
15CH1	General Chemistry 1	Z	3			
The most important	t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	se are illustrated b	y examples			
	solved in exercises.					
15CH2	General Chemistry 2	Z,ZK	3			
The subject is the continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using various examples, the fact that the validity of these principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are illustrated by examples solved						
	in exercises.					
18ZALG	Basics of Algorithmization	Z,ZK	4			
	devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	-	-			
18ZPRO	Basics of Programming	Z	4			
This course is intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming and with the Python programming language.						
TV-1		7	1			
	Physical Education	Z				
TV-2	Physical Education	Z 7	1			
TV-3	Physical education	Z	1			
TV-4	Physical education	Z	1			

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u>

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