## Study plan

## Name of study plan: Fyzikální inženýrství - Poíta ová fyzika

Faculty/Institute/Others:
Department:
Branch of study guaranteed by the department: Welcome page
Garantor of the study branch:
Program of study: Physical 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: BSPFIPF1 Name of the group: BS P\_FIB PF 1st year Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 14 courses Credits in the group: 0 Note on the group: 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
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	PS

18ZPRO	RO 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.)					PS
Characteristics of	the courses of this group of Study Plan: Code=BSPFIPF1 Name=I	BS P_FIB PF	<sup>:</sup> 1st year			
02DEF1	History of Physics 1				Z	2
Physics and its place in t	he system of sciences. The relationship of man and nature. Natural sciences in ancient Or	ientand Greece,	Greek natur	ral philosoph	ners, Aristotle	. Physics in
Helenistic period, Archim	ed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B	Bruno. Copernicu	is, Kepler, G	alileo, Huyg	ens. The birth	of physics
as experimental science.	Newton and his work.					
02ELMA	Electricity and Magnetism			Z	Z,ZK	6
Electric charge, Coulomb	s' law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectr	ics. Electric curre	ent and circu	its, conducti	vity. Basics o	f the relativity
theory. Electrodynamic for	prces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagnetic	waves, Max	well equation	ons.	
01LAL	Linear Algebra 1				Z	2
	dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	5. Linear mappi	ngs. 6. Matrie	ces of linear	mappings. 7.	Frobenius
theorem.						
	Linear Algebra 1, exam				ZK	2
01LAL2	Linear Algebra 2			Z	Z,ZK	4
	and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector	-	-			
	y. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Me					
	lation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.	5. Scalar produc	t and orthog	onality. Calc	culation of ort	hogonal
· · ·	ry exercises and examples. 7. Adjoint operators.					
	Calculus 1				Z	4
	ysis, functions of one real variable, differential calculus).					
01MANZ	Calculus 1, exam				ZK	4
						•
01MAN2	Calculus 2				Z,ZK	8
1. Continuation of differen	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen	-		Z Solute and co	Z,ZK	8 avergence 3.
1. Continuation of different Real and complex power	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic	-		Z Solute and co	Z,ZK	8 avergence 3.
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1. Continuation of difference         Real and complex power         (Riemann definition), tecl         02MECH         Introduction to physics, p         one-dimensional motion,         of a rigid body, rotation.         02MECHZ         The content of the subject         00PT         02TER         Thermal expansion of magentropy; non-chemical sy         12UNXAP         Computer and operating sy         Command interpreter (shr         X-windows. Computer ne         hardware sharing, mail, s         18ZPRO	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic hniques of integration and application of integrals, Generalized Riemann integral Mechanics hysical 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 syst Mechanics - Examination ct is the examination according to the plan of studies. Preparatory Week Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials Introduction to UNIX systems. Personal computer, workstation and supercomputers. Processor, memory, bus, or stems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. rell) bash and its programming (scripts). Controlling processes, process status, computer I tworks. Local computer networks. Global computer networks. Addresses and protocols TC scp, etc. Network applications Basics of Programming	n of infinite serie rposition. Dynam em of particles, netration; 1st and kinetic theory: N devices, hard dis File system, file oad a process p P/IP. Network co	d 2nd thermo d 2nd thermo laxwell's vel k, network ir atributes, wo riorities. Star onfigutation o	Z solute and co of integrals: icle, solving oblems, part z odynamic pr ocity distribu nterface. Har orking with fi ndard tools.	Z,ZK     onditional corresponditional corresponditions of a constraint of the second state of the se	8 vergence 3. efinite integral 4 motion for b. Mechanics 2 2 4 and real gas, ition theorem. 2 oftware. ors: vi, emacs. er interface ervices: 4
1. Continuation of difference         Real and complex power         (Riemann definition), tecl         02MECH         Introduction to physics, p         one-dimensional motion,         of a rigid body, rotation.         02MECHZ         The content of the subject         00PT         02TER         Thermal expansion of magentropy; non-chemical sy         12UNXAP         Computer and operating sy         Command interpreter (shr         X-windows. Computer ne         hardware sharing, mail, s         18ZPRO         This course is intended magentropy	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic hniques of integration and application of integrals, Generalized Riemann integral Mechanics hysical quantities and units. Kinematics of a particle, basic types of motion and their supe motion in a central force field, forces in non-inertial reference frames. Mechanics of a syst Mechanics - Examination ct is the examination according to the plan of studies. Preparatory Week Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials Introduction to UNIX systems. Personal computer, workstation and supercomputers. Processor, memory, bus, or vetems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. well) bash and its programming (scripts). Controlling processes, process status, computer I tworks. Local computer networks. Global computer networks. Addresses and protocols TC scp, etc. Network applications	n of infinite serie rposition. Dynam em of particles, netration; 1st and kinetic theory: N devices, hard dis File system, file oad a process p P/IP. Network co	d 2nd thermo d 2nd thermo laxwell's vel k, network ir atributes, wo riorities. Star onfigutation o	Z solute and co of integrals: icle, solving oblems, part z odynamic pr ocity distribu nterface. Har orking with fi ndard tools.	Z,ZK     onditional corresponditional corresponditions of a constraint of the second state of the se	8 avergence 3. efinite integral 4 motion for a. Mechanics 2 2 4 and real gas, ition theorem. 2 oftware. ors: vi, emacs. er interface ervices: 4
1. Continuation of difference         Real and complex power         (Riemann definition), tecl         02MECH         Introduction to physics, p         one-dimensional motion,         of a rigid body, rotation.         02MECHZ         The content of the subject         00PT         02TER         Thermal expansion of magentropy; non-chemical sy         12UNXAP         Computer and operating sy         Command interpreter (shr         X-windows. Computer ne         hardware sharing, mail, s         18ZPRO	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic hniques of integration and application of integrals, Generalized Riemann integral Mechanics hysical 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 syst Mechanics - Examination ct is the examination according to the plan of studies. Preparatory Week Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials Introduction to UNIX systems. Personal computer, workstation and supercomputers. Processor, memory, bus, or stems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. rell) bash and its programming (scripts). Controlling processes, process status, computer I tworks. Local computer networks. Global computer networks. Addresses and protocols TC scp, etc. Network applications Basics of Programming	n of infinite serie rposition. Dynam em of particles, netration; 1st and kinetic theory: N devices, hard dis File system, file oad a process p P/IP. Network co	d 2nd thermo d 2nd thermo laxwell's vel k, network ir atributes, wo riorities. Star onfigutation o	Z solute and co of integrals: icle, solving oblems, part z odynamic pr ocity distribu nterface. Har orking with fi ndard tools.	Z,ZK     onditional corresponditional corresponditions of a constraint of the second state of the se	8 avergence 3. efinite integral 4 motion for a. Mechanics 2 2 4 and real gas, ition theorem. 2 oftware. ors: vi, emacs. er interface ervices: 4
1. Continuation of difference         Real and complex power         (Riemann definition), tecl         02MECH         Introduction to physics, p         one-dimensional motion,         of a rigid body, rotation.         02MECHZ         The content of the subject         00PT         02TER         Thermal expansion of magentropy; non-chemical sy         12UNXAP         Computer and operating sy         Command interpreter (shr         X-windows. Computer ne         hardware sharing, mail, s         18ZPRO         This course is intended magentropy	ntial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic hiniques of integration and application of integrals, Generalized Riemann integral Mechanics hysical quantities and units. Kinematics of a particle, basic types of motion and their supe motion in a central force field, forces in non-inertial reference frames. Mechanics of a syst Mechanics - Examination t is the examination according to the plan of studies. Preparatory Week Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials Introduction to UNIX systems. Personal computer, workstation and supercomputers. Processor, memory, bus, or restems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. https://scal.com/example.com/exampl	n of infinite serie rposition. Dynam em of particles, netration; 1st and kinetic theory: N devices, hard dis File system, file oad a process p P/IP. Network co	d 2nd thermo d 2nd thermo laxwell's vel k, network ir atributes, wo riorities. Star onfigutation o	Z solute and co of integrals: icle, solving oblems, part z odynamic pr ocity distribu nterface. Har orking with fi ndard tools.	Z,ZK     onditional corresponditional corresponditions of a constraint of the second state of the se	8 avergence 3. efinite integral 4 motion for a. Mechanics 2 2 4 and real gas, ition theorem. 2 oftware. ors: vi, emacs. er interface ervices: 4

Name of the group: BS P\_FIB PF 2nd 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:

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
01ANB3	Calculus B 3 Miroslav Kolá , Milan Krbálek Milan Krbálek Miroslav Kolá (Gar.)	Z,ZK	8	4P+4C		PS
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá <b>Ji í Mikyška</b> Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		PS
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	PS
12PAS	Computer Algebra Systems Milan Ši or <b>Milan Ši or</b> Milan Ši or (Gar.)	Z	2	1P+1C	Z	PS
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	PS

18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský <b>Miroslav Virius</b> Miroslav Virius (Gar.)	KZ	4	2+2	L	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
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS
12VPMF	Selected Topics in Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.)	Z	3	2P+1C	L	PS
12ZMDT	Measurement and Data Processing Ivan Procházka, Josef Blažej Josef Blažej Ivan Procházka (Gar.)	Z,ZK	2	1P+1C	Z	PS
	courses of this group of Study Plan: Code=BSPFIPF2 Name=	BS P_FIB PF	2nd yea		"ZK	8
Expansion, Taylor's theorem, equation and exact equation) side, Euler differential equation of set, completeness of space series and their convergence Taylor series, elementary terr 01ANB4 Cal	series - convergence range, criteria of uniform convergence, continuity, limit, differenti 2. Ordinary differential equations - equations of first order (method of integration factor and equations of higher order (fundamental system, reduction of order, variation of part on). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior e, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier ser 5. 5. Differential calculus of functions of several variables - limit, continuity, partial and of ms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several en culus B 4	or, equation of Be rameters, equatior or points, boundar ries - expansion of directional derivati equations.	rnoulli, sepa ns with cons y point, isola functions in ve, gradient	ional series tration of va tant coefficie ated and no to Fourier se , total deriva	, power series riables, homo ents and spec n-isolated poi eries, trigonor atives and tan	geneous ial right-hand nt, boundary netric Fourier gent plane, 6
prom nných, nekartézské so Integrální po et funkce více p	více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorov ustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, umetru. [8] Integrály po k ivkách a plochách. Integrální v ty.	Základy teorie mi	ry a obrys l	konstrukce L	ebesgueovy	míry. [7]
There are explained the basic important for physicists (ordin	merical Methods 1 c principles of numerical mathematics important for numerical solving of problems imp nary differential equations, random numbers) are included in addition to the basic num ning language as a demonstration tool. The seminars are held in computer laboratory.	nerical methods. Ir		ogy. Method		,
	mputer Algebra Systems ion to computer algebra systems (CAS): their main characteristics, ways and means c	of using them. Con	stituent par	t is realized	Z	2 assrooms:
students acquire basic skills	with CAS by solving relatively simple and basic tasks from mathematics and physics.		F			
	pgramming in C++ 1 e C programming language and non-object oriented features of the C++ language.			I	Z	4
1 1	ogramming in C++ 2 t oriented programming and othesr advanced constructs in the C+;+ programming lan	guage and the St	andard Tem	1	KZ	4
	eoretical Physics 1	iguage and the St			,. ,ZK	4
to description of dynamics (N problem, the motion of a syst	to analytical mechanics. The students acquire knowledge of the basic concepts of the L lewtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these tem of constrained mass points, and of a rigid body. Advanced parts of the course cov classical theoretical physics (02TEF1, 02TEF2).	methods is illustra	ted on elen	nentary examination of methods and the second se	nples like the echanics. The	two-body
Tensors and transformations	eoretical Physics 2 in physics. Mechanics of point mass, rigid body and continuum. The special theory of ical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagne	-		cs and class		-
02TSFA The	ermodynamics and Statistical Physics				"ZK	4
Basics of many body descrip	cs and statistical physics. Thermodynamic potential, the Joule Thomson effect, condition tionfrom a statistical point of view (classical and quasiclassical regime within the fram y radiation). The Boltzmann equation is usedto discusses simple transport phenomen	e of a canonical a				
	oduction to Scientific Computing ion to scientific computing. Constituent part of the course is realized in computer class	sroom.Students ge	et acquinted	with some	Z basic tools for	2 rt scientific
and technicval computing, data analysis, data visualisation and algorithm development.						
02VOAF       Waves, Optics and Atomic Physics       Z,ZK       6         Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems.       6						
12VPMF       Selected Topics in Modern Physics       Z       3         The aim of this course is to improve students knowledge in modern parts of physics (such as measuring of gravitational waves, neutrinos, discovery of Higgs boson, principles of light emitting diodes,) with a partial help of computer algebra systems (e.g. Maple). Apart from the other courses related to modern physics taught in this study program, this course does not deal with detailed mathematical formalism of studied phenomena. Therefore, the secondary aim is the increase of students motivation for deeper understanding of modern physics and its laws in their following study						
	asurement and Data Processing surements and data processing and result interpretation: errors, precision, accuracy,	normal distributior	n and its pro		,ZK fitting, separ	2 ation of the

Code of the group: BSPFIPF3

### Name of the group: BS P\_FIB PF 3rd year Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 14 courses Credits in the group: 0

Note on the group:

Zkoušku z předmětu 01RMAF lze skládat až po složení všech zkoušek z Matematické analýzy a Lineární algebry.

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
12BPFI1	Bachelor Project 1 Ivan Richter Ladislav Kalvoda (Gar.)	Z	5	0P+5C		PS
12BPFI2	Bachelor Project 2 Ivan Richter Ladislav Kalvoda (Gar.)	Z	10	0P+10C		PS
02KM1	Quantum Mechanics 1           Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	Z	PS
12POAL	Computer Algebra Richard Liska Richard Liska Richard Liska (Gar.)	KZ	2	2	Z	PS
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C		PS
11BSEM	Bachelor Seminar Radka Mika Havlíková, Ladislav Kalvoda Ladislav Kalvoda Ladislav Kalvoda (Gar.)	Z	1	0P+2C	L	PS
01DYKO	Introduction to Continuum Dynamics Pavel Strachota, Radek Fu ik Pavel Strachota Radek Fu ik (Gar.)	Z,ZK	3	2P+1C		PS
12UPF1	Introduction to Computational Physics 1 Milan Kucha ík, Richard Liska Milan Kucha ík Milan Kucha ík (Gar.)	Z,ZK	2	1P+1C	Z	PS
12UPF2	Introduction to Computational Physics 2 Milan Kucha ík, Richard Liska Milan Kucha ík Milan Kucha ík (Gar.)	Z,ZK	2	1P+1C	L	PS
12PYTH	Scientific Programming in Python Pavel Váchal, Jakub Urban Pavel Váchal Pavel Váchal (Gar.)	Z	2	0+2	L	PS
12ZELD	Fundamentals of Electrodynamics Milan Ši or Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PS
11ZFPL	Basic to Solid State Physics Eva Mihóková	KZ	2	26P+0C	Z	PS
11ZFP	Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Ladislav Kalvoda (Gar.)	ZK	3		Z	PS
12ZFP	Principles of Plasma Physics Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.)	Z,ZK	4	3+1	L	PS
12ZAOP	Fundamentals of Optics Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PS
Characteristics of the	e courses of this group of Study Plan: Code=BSPFIPF3 Name=I	BS P_FIB PF	3rd year			
12BPFI1 Ba	chelor Project 1				Z	5
The bachelor project is base	d on a topic approved by the administrators of the programme, department and by the d	ean. The student	is guided by	the project	supervisor du	ring comm
regular meetings and discus	ssions.					
12BPFI2 Ba	chelor Project 2				Z	10
The bachelor project is base	d on a topic approved by the administrators of the programme, department and by the d	ean. The student	is guided by	the project	supervisor du	ring comm
regular meetings and discus	ssions.					
02KM1 Qu	antum Mechanics 1			2	Z,ZK	6
Abstract: The lecture describ	bes the birth of quantum mechanics and description of one particle and more particles b	y elements of the	Hilbert space	e as well a	s its time evolu	tion. Besid
that it includes description o	f observable quantities by operators in the Hilbert space and calculation of their spectra	a.				
12POAL Co	omputer Algebra				KZ	2
Lisp, representation of basic	objects (integers, rational and algebraic numbers, polynomials, rational functions, radica	als, algebraic func	tions), arithr	netics, simp	lification, grea	test comm
divisor, resultant, derivation,	series summation, integration, ordinary differential equations, factorization, equations	solving, quantifie	r elimination	, substitutio	on and pattern	matching,
algebraic programming, grap	phics, Maple - detailed introduction and solving of practical examples, applications, over	view of other syste	ems (Axiom	, Macsyma,	Mathematica)	, miniproje
01RMAF Eq	uations of Mathematical Physics			Z	Z,ZK	7
The subject of this course is	solving integral equations, theory of generalized functions, classification of partial diffe	erential equations	, theory of ir	ntegral trans	formations, ar	nd solution
partial differential equations	(boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).					
11BSEM Ba	ichelor Seminar				Z	1
	ar, students familiarize themselves with the general principles of publishing and presenti	ing scientific work	and the for	mal require	1	elors degr
	econd part is designed as a practical training for the defence of the bachelors degree p	-				-
the research results achieve	d during the work on their projects. Each presentation is followed by a discussion on scie	entific matters as v	vell as on the	e possibilitie	s of improving	the studer
performance.					J. J	
	roduction to Continuum Dynamics				Z,ZK	3
	bus introduction to the mathematical description of continuum dynamics. In the first par	t the necessary	mathematic		· .	-
		-				-
	lifferential forms, and integration on manifolds. Next, the fundamental concepts such as					-
,	subsequently in the derivation of the conservation laws of mass, momentum and energ fic cases of viscous and inviscid fluid and linear/nonlinear elastic body.	y in both integral	anu ultteren	uai iorms. I	ne conservati	un iaws ar
	-				7 71/	
	roduction to Computational Physics 1	loo Numerie-199			Z,ZK	2

Numerical simulation and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program libraries for physics. Computer tools for scientific visualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance computing, parallel computing, software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.

12UPF2	Introduction to Computational Physics 2			Z	',ZK	2
Nonlinear models, comp	lex systems, chaotic systems, fractals and their applications in physics. Artificial intelligence	ce methods: neura	al networks,	machine lea	arning, genetic	algorithms,
	r applications in physics. Quantum computing. Virtual reality.					
12PYTH	Scientific Programming in Python				Ζ	2
	to learn the fundamentals of the modern Python programming language with a focus on s	-		-		
1.	performed in an interactive form of practical exercises, whose topics can be tailored to the					
	arch. In the introductory part of the course, students learn the basic features of Python?fro e focuses on specific features of Python for scientific programming. Presented are the ma		-			-
	generate efficient code, how to combine Python with other languages, what tools are avail		ies numry,	SCIFY and t		graphics
	Fundamentals of Electrodynamics			7	,ZK	2
·	ion of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscop	oic theory. Using s	special theor			
	ctors between two inertial systems of coordinates with appropriate invariants. Wave and Helr		-	-	-	
waves methods of solvin	ng these equations are studied in homogeneous media with gradually increasing complexit	ty: isotropic withou	ut losses, wi	h absoption	, with dispers	ion, and
	lution in weakly non-homogeneous madia is presented using the method of eiconal. Indivi	dual chapters are	illustrated b	y appropriat	e examples.	
11ZFPL	Basic to Solid State Physics				KZ	2
	tal properties of solids following the regular long distance ordering of atoms in a crystal la			-		
	rystals and their properties are defined. The model of crystalline lattice dynamics in harmoni					-
-	c potential of the crystal lattice is introduced and its relation to the following model describi The special consequences of band approach to the physical properties of solids are eluc.				-	
	nenological basis of physical properties of crystalline solids				adouny indou	
	Basic to Solid State Physics				ZK	3
	tal properties of solids following the regular long distance ordering of atoms in a crystal la	ttice. Based on the	e introduced			
solids, various types of c	rystals and their properties are defined. The model of crystalline lattice dynamics in harmoni	ic approximation is	s described a	and basic the	ermal properti	es of crystals
are derived. The periodic	c potential of the crystal lattice is introduced and its relation to the following model describi	ing the energetic s	state of elec	rons in solid	ds by means o	of electron
	. The special consequences of band approach to the physical properties of solids are eluc	idated. The aim of	the course	is to system	atically introd	uce and
	nenological basis of physical properties of crystalline solids					
	Principles of Plasma Physics	t motions and adi	abatia invari		Z,ZK	4
	nperature plasmas is explained using particle, kinetic and fluid approaches. It includes drif romagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderor				-	
	uction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multipl		-	-	instabilities a	ie explained.
	Fundamentals of Optics	,			,ZK	2
	ery basics of optics - electromagnetic theory, linear optical physics and material effects, ba	asics of nonlinear	effects, and		·	
the lecture is to obtain, o	on the bachelor level, broad and general information on optics, giving an essential orientation	ion in the field, es	pecially with	respect to o	character of th	e bachelor
-	re further elaborated during departmental masters program. The lecture stems from the ele	-	-			
	n material medium. It explains basics of linear and nonlinear response in material medium		-			
	lains processes induced by boundary conditions at interfaces. It also discusses the conse and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction	-			-	
	sed on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture				-	
	titutive schema of a paraxial imaging system, and optical aberrations. It shows fundamenta	-				geemetrear
Name of the bl	ock: Compulsory elective courses					
	er of credits of the block: 0					
The role of the	DIOCK: PV					
Code of the gro	oup: BSSPOLVEDY					
Name of the or	oup: BS - Social Sciences					
-	redits in the group:					
•	5 1					
•	ourses in the group: In this group you have to comple	ete at leas	t 1 cou	se		
Credits in the g	group: 0					
Note on the gro	Oup: Only one of these cou	rses is obliga	atory.			
	Name of the course / Name of the group of courses		-			
Code	(in case of groups of courses the list of codes of their	Completion	Cradite	Scono	Semester	Role
Coue	members)	Completion	Creuits	Scope	Semester	NOIC
	Tutors, <b>authors</b> and guarantors (gar.)					
00EKOT	Economy in Technology	Z	1	2+0		PV
	Jana Ková ová					
00ETV	Ethics of Science and Technology Jakub Hají ek Jana Ková ová Jakub Hají ek (Gar.)	Z	1	0+2	L	PV
OODET	Rhetoric	7	4	0.2		
00RET	Jana Ková ová Jana Ková ová Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2		PV
00UPRA	Introduction to Law	Z	1	0+2		PV
	Martin ech Jana Ková ová Martin ech (Gar.)		· ·			
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová Jakub Hají ek (Gar.)	Z	1	0+2		PV
i i i i i i i i i i i i i i i i i i i	ι σατών Παμι τη <b>σαμα τονά υνα</b> σατύν Παμι τκ (Gal.)	1	1			

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

00EKOT	Economy in Technology	Z	1
The course introduces	the basics of micro- and macroeconomics.		
00ETV	Ethics of Science and Technology	Z	1

00RET	Rhetoric	Z	1			
The course is focused of	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 nonvert	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.					
00UPRA	Introduction to Law	Z	1			
00UPSY	Introduction to Psychology	Z	1			

Code of the group: BSPJAZYKYZK Name of the group: BS P languages Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 0

Note on the group:

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	<b>Czech for Foreigners Beginners - Examination</b> Slav na Brownová <b>Jana Ková ová</b> 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 Exar	nination	ZK	4		
The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral					
(20-30 min). The student is expected to master the AM syllabus and demor	strate the ability to apply their knowledge gained in the three English cou	rses.			
04XAPZK English for Advanced Students Examin	ation	ZK	4		
The course content is the examination as given by the study plan. The stude	ent 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 - Exan	nination	ZK	4		
The course content is the examination as given by the study plan. The exam	nination consisting of a written and oral part covers all the topics of the 04	XCESZ1,2,3 cou	rses and can		
only be taken after successful completion of all three courses. Detailed info	rmation is to be obtained from the teacher.				
04XCESMZK Czech for Intermediate Students Exam	ination	ZK	4		
The course content is the examination as given by the study plan. The exam	nination consisting of a written and oral part covers all the topics of the CI	ESM1,2,3 courses	s and can only		
be taken after successful completion of the 3 courses. Detailed information	is to be obtained from the teacher.				
04XCESPZK Czech for Foreign Students - Advanced	Examination	ZK	4		
The course content is the examination as given by the study plan. The exam	nination consisting of a written and oral part covers all the topics of the CI	ESP1,2,3 courses	and can only		
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.					
04XFMZK French for Intermediate Students Exam	nination	ZK	4		
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination					
consists of a written and oral part and is organized according to Examination	on Instructions, a document available on the web.				

04XFPZK	French for Advanced Students Examination	ZK	4			
· · · · · - · ·	French for Advanced Students Examination		•			
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and is organized according to Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.						
		71/	0			
	French for Beginners Examination	ZK	3			
	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.	mination is ruled b	by the document			
	on. Its content covers the levels FZ1 - FZ5.					
04XNMZK	German for Intermediate Students Examination	ZK	4			
	e examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination	•				
	e courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assess	sment. More detai	led information			
is to be obtained from th	e teacher.					
04XNPZK	German for Advanced Students Examination	ZK	4			
The course content is th	e examination as given by the study plan. The whole German for Advanced Students Course is completed by an examinatio	n consisting of tw	o parts - written			
and oral, which cover the	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	ined from the teacher.					
04XRMZK	Russian for Intermediate Students Examination	ZK	4			
The course content is th	e 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 RM1			
- RM3. Students are elig	ible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct	ions by the teach	er.			
04XRPZK	Russian for Advanced Students Examination	ZK	4			
The course content is th	e 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 eligi	ible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructiv	ons by the teache	r.			
04XRZZK	Russian for Beginners Examination	ZK	3			
The course content is th	e 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 RZ1			
- RZ5. Students are eligi	ble 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			
	e 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 as	sessment for course XSM3. Oral examination follows the written part.					
04XSPZK	Spanish for Advanced Students Examination	ZK	4			
	e 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			
having 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 examination only if he/she has						
passed the written exam		,				

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

Code of the group: BSPFIPFV Name of the group: BS P\_FIB PF 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
12AUX	Administration of UNIX System Milan Ši or Milan Ši or Milan Ši or (Gar.)	KZ	2	2+0	L	V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V
02PRA1	Experimental Laboratory 1 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	Z	V
02PRA2	Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	V
B0B36JUL	Julia for optimization and learning Milan Papež, Šimon Soldát, Václav Mácha Milan Papež Milan Papež (Gar.)	KZ	4	1P+3C	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
02KM2	Quantum Mechanics 2 Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	L	V
00MAM1	Essentials of High School Course 1 David Be 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
12MOF	Molecular Physics Jan Proška, Martin Michl Martin Michl Jan Proška (Gar.)	ZK	2	2+0	L	V
12NT	<b>Nanotechnology</b> Jan Proška, Eduard Hulicius <b>Jan Proška</b> Eduard Hulicius (Gar.)	ZK	2	2+0	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
01PGR1	Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		V
01PGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		V
01SITE1	Computer Networks 1 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	Z	V
01SITE2	Computer Networks 2 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	L	V
18PROP	Practical training in programming Jakub Klinkovský Jakub Klinkovský Jakub Klinkovský (Gar.)	KZ	3	2C	Z	V
18PJ	Programming in Java Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
11SFIPL	Seminar on Solid State Physics Ladislav Kalvoda Ladislav Kalvoda (Gar.)	KZ	2	1+1		v
02SMF	Seminar of Mathematical Physics Martin Štefa ák Ladislav Hlavatý (Gar.)	Z	2	0+2	Z	v
01SOS1	Software Seminar 1 Zden k ulik Zden k ulik (Gar.)	Z	2	0+2	Z	v
01SOS2	Software Seminar 2 Zden k ulik Zden k ulik (Gar.)	Z	2	0+2	L	v
TV-1	Physical Education	Z	1		Z	v
TV-2	Physical Education	Z	1		L	v
TV-3	Physical education	Z	1	0+2	Z	v
TV-4	Physical education	Z	1	0+2	L	v
14TED	Creating Electronic Documents Aleš Materna, Ji í Martin ík Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
12UFN	Introduction to Photonics and Nanostructures Ivan Richter, Pavel Kwiecien, Jan Proška Ivan Richter Ivan Richter (Gar.)	KZ	3	2P+1C	L	v
12ULTB	Introduction to Laser Technique Helena Jelínková, Jan Šulc, Michal N mec Jan Šulc, Helena Jelínková (Gar.)	KZ	3	2P+1C	L	v
01UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		v
01UP2	Introduction to Probability 2 Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		v
12VTV	Scientific and Technical Computing Ivan Procházka Ivan Procházka Ivan Procházka (Gar.)	Z	2	1+1	L	v
18ZALG	Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	v
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
12ZFS	Fundamentals of Photonic Structures	Z,ZK	2	2P	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
02ZJFB	Nuclear Physics B Vladimír Wagner Martin Štefa ák Vladimír Wagner (Gar.)	KZ	3	3+0	Z	v
01ZPB1	Introduction to Computer Security 1 Petr Voká Petr Voká Petr Voká (Gar.)	Z	2	1+1		v
12ZFD	Physical Data Visualization Josef Blažej Josef Blažej Josef Blažej (Gar.)	KZ	2	1P+1C	Z	v

### Characteristics of the courses of this group of Study Plan: Code=BSPFIPFV Name=BS P\_FIB PF Optional courses

12AUX	Administration of UNIX System	KZ	2				
Basic and more advanced administration of Unix operating system							
02DEF2	History of Physics 2	Z	2				
Development of classic	Development of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. Electricity and magnetism -						
electrostatics, galvanis	electrostatics, galvanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. The birth of modern quantum						
and relativistic physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear energy, Elementary particles,							
standard model. The c	standard model. The concept of Nature and Universe of today.						

02PRA1	Experimental Laboratory 1	KZ	6
	ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear		
	erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with		•
	cquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evalu lowledge gained in lectures on physics.	lation of results. A	t the same time
02PRA2		KZ	6
	Experimental Laboratory 2 ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear	I I	-
	erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with		
-	cquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evalu		-
	iowledge gained in lectures on physics.		
B0B36JUL	Julia for optimization and learning	KZ	4
Julia programming lang	uage is increasingly known by the community for its suitability in the field of numerical calculations. The course consists of two	o parts. The first p	part presents the
	ond part introduces mathematical optimization and its application in machine learning, statistics and optimal control of different		
	ncepts of Julia, the second part combines them into longer logical sections of code. We explain each application theoretically		
	s by themselves and compare them with already existing packages. The course ends with a final project. Students can either		
	competition with real data. This course is also part of the inter-university programme prg.ai Minor. It pools the best of AI educa der insight into the field of artificial intelligence. More information is available at https://prg.ai/minor.	lion in Flague to	
04AKS	English Conversation	Z	1
	the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun	I I	-
	ous communication situations and will master their communication strategy. They will also practise their listening skills in order		-
in discussions. The stud	dent will be trained to express their ideas clearly and according to current English usage, and become a more confident speal	ker.	
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 sum	marizes the
	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 quantum			
00MAM1	Essentials of High School Course 1	Z	1
	d to mathematical concepts and methods used in the introductory physics course.		
00MAM2	Essentials of High School Math Course 2	Z	1
Review of basics of high		714	
12MOF	Molecular Physics	ZK	2
	of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular structure deter		0
12NT	Nanotechnology		2 fundamenta of
	students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Phys MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technolo		
	on. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for he	-	
	ed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric la		
as well as soldering and			
15CH1	General Chemistry 1	Z	3
The most important cor	ncepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic	al use are illustra	ted by examples
solved in exercises.			
15CH2	General Chemistry 2	Z,ZK	3
	nuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Usi		
	nciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by e	examples solved
in exercises.	Computer Graphics 1	Z,ZK	2
01PGR1	semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the sta		
	problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems an		-
	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of co		
	g scientific documents and presentations.		
01PGR2	Computer Graphics 2	Z,ZK	2
The second part of the	two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a pheno	omenon ubiquitou	s in computer
graphics. Further, a wel	I structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the descripti	on of a 3D scene	to its realistic
	on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained	-	-
-	m implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theorem	etical concepts a	re demonstrated
	-source 3D modeling and rendering software instrument.		
01SITE1	Computer Networks 1	Z	2
-	bry and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network s. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification a		
	Jetwork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the si	-	-
01SITE2	Computer Networks 2	Z	2
	bry and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network	I I	_
e e	s. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification a		
(PKI). Use in practice. N	Jetwork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.	erial control lines,	modems)
18PROP	Practical training in programming	KZ	3
-	is to understand advanced topics related to programming, code design and software project development. Students will pract		-
	eal-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers work	efficiency and en	sure high quality
of the final source code		/	
18PJ	Programming in Java	Z,ZK	5
	to the Java platform and to the development of the basic types of applications for this platform.	7	0
01PSL	LaTeX - Publication Instrument o the basics and facilities of computer typography, particularly to the system LaTeX	Z	2
he course is deviated t			

11SFIPL	Seminar on Solid State Physics	KZ	2
1.Introduction of the Sei	minar and ?SSS? software features. 2. Module "bravais" - crystal structure and X-ray diffraction in 2D ? theory 3. Simulations	of diffractive phen	omena related
• •	stal lattice versus crystal structure, primitive cell, elementary cell, lattice plane, reciprocal grid, Laue and Bragg condition, atc	•	-
	al structural analysis 4. Module "laue" - Diffraction on perfect and imperfect crystals 5. Simulations: influence of structural disorder		
	, quasi crystals 6. "born" module - dynamics of crystalline grid in 1D ? theory 7. Simulations: planar waves, traveling and stand	-	
,	momentum transport, infinite chain, chain of finite lenght, boundary conditions, wave packets, group and phase velocity, dispers nonicity 8."debye" module - lattice dynamics and thermal capacity ? theory 9.Simulations: Brillouine zone, dispersion relation,		
	" module - dynamics of classical electron gas in 2D ? theory 11.Simulations: diffuse electron movement, electron drift in an e	-	
	ectron mobility, electron motion in magnetic field, cyclotron frequency, Hall experiment, magnetorezistence 12.Assignment, e		-
seminar work.			
02SMF	Seminar of Mathematical Physics	Z	2
	inar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics depart	ment will present	simple tasks
<u> </u>	ic activities that could become the topics of the student?s bachelor theses in the next year		
01SOS1	Software Seminar 1	Z	2
	mbly language programming for microprocessors Intel 80x86	7	
01SOS2 Graphical libraries GTK	Software Seminar 2 + and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix li	- 1	2
•	bility to Microsoft Windows.	Re operating syste	erris, especially
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
14TED	•	Z	2
	Creating Electronic Documents and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenta	- 1	
office suite.			
12UFN	Introduction to Photonics and Nanostructures	KZ	3
	ures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanopla	I	-
fibers; integrated photor	nics; computer simulations; technological realization; student presentations		-
12ULTB	Introduction to Laser Technique	KZ	3
•	netic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase	rs; laser safety pr	ecautions. The
laser amplifier, Q-switch			
01UP1	Introduction to Probability 1	Z,ZK	3
	e set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and g		
	r, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and me ie 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants	an value 6.Proble	ms involving the
01UP2	Introduction to Probability 2	Z.ZK	3
	tinuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction	, ,	-
	erical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics		
estimations. 7. Generati	ng pseudorandom numbers from the selected distribution.		
12VTV	Scientific and Technical Computing	Z	2
The students get familia	r with methods of solving of computational problems in the scientific and technical practice, and with methods of their progra	mming. The cours	e is oriented
mainly to programming			
18ZALG	Basics of Algorithmization	Z,ZK	4
	o selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the		-
12ZEL1	Basic Electronics 1	Z,ZK	3
	imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effect		
12ZEL2	Basic Electronics 2	Z,ZK	3
	vith the Basic Electronics 2.	· · ·	
12ZFS	Fundamentals of Photonic Structures	Z,ZK	2
	asics of photonic structures, it classifies photonic structures compares them with the electronic structures, summarizes their	, ,	
	discusses the basic physics and technology of optical waveguides; it introduces basic linear, nonlinear, and active structures		
applications in optical co	ommunications and sensors. Next, the attention is given to introduction of plasmonic structures and plasmonics, periodic stru	ctures and photor	nic crystals,
metamaterials, metasur	faces, and finally to photonic structures for quantum technologies. Finally, the lecture is closed with student presentations on	selected relevant	topics and
excursions to selected p			
02ZM1	Foundations of Physical Measurements 1	ZK	2
-	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,		-
basic habits of work in a	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired d	ala on a PC. Slud	ents learn the
02ZM2	Foundations of Physical Measurements 2	KZ	4
	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,	I	-
-	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired d		-
basic habits of work in a			
02ZJFB	Nuclear Physics B	KZ	3
This scientific field prese	ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic do	main, where much	of our classical
	ehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.		
01ZPB1	Introduction to Computer Security 1	Z	2
12ZFD	Physical Data Visualization	KZ	2
	scientific plots, dala visualization basics, measurements results presentation		

Code of the group: BSPJAZYKYZAP

## Name of the group: BS P jazyky zap Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04XAM1	English for Intermediate Students M1 Jana Ková ová 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	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
04XAM1 En The course is designed for of Reference for Languages	e courses of this group of Study Plan: Code=BSPJAZYKYZAF nglish for Intermediate Students M1 students who have successfully completed the full secondary school English languag s (CEFR). It provides an introduction into English for Specific and Academic Purpose n communication situations. Thus it covers topics related to the student's life and nee	e course at least at s (ESP, EAP), i.e., ir	the A2 level	of the Com	abulary and s	tyle typical c
extending the knowledge of	f grammar issues used in EAP.	us as well as topics				•
The AM2 course expects th	nglish for Intermediate Students M2 he student to have completed the AM1 course. It develops their skills for work with sul ESP and EAP (e.g., definition, existence and classification of phenomena, object descr		•			
	nglish for Intermediate Students M3 ills that enable students to cope with features typical of professional style. Increasing a	ttention is naid to de	veloning sub	otechnical ve	Z	2 independer
understanding of profession	nal texts. Great emphasis is placed on distinguishing different levels of formal and info o includes studying abstracts and rules for writing them as well as basic rules for pre	ormal oral and writte	en communio	cation and th	neir appropria	te Czech
04XAP1 EI The course is designed for of Reference for Languages grammar, and style typical covers professional oral and	nglish for Advanced Students P1 students who have successfully completed the full secondary school English languages s - CEFR). It provides an introduction into English for Specific and Academic Purpose of professional oral and written communication situations (fundamentals of terms in n d written communication on topics related to the undergraduate's life and needs. It deve	es (ESP, EAP), i.e., i nathematics and ph	into the fund ysics, definit	lamentals of ions, graph	vocabulary, f descriptions,	unctions, etc). It also
· · · · ·	γ, revision of selected grammar topics is included. nglish for Advanced Students P2				Z	2
The AP2 course is based o the students' needs it conc of descriptions, and, if poss The course extends the stu	n AP1, thus extending the student's skills for working with subtechnical texts, and eve entrates on chosen grammar topics, but mainly intends to develop understanding of s sible, a case study). Increasing emphasis is placed on the undergraduate's independent's dent's subtechnical vocabulary, and includes fundamental notions of chosen branches cohesion and coherence in texts.	syntactic structures ent work with and re	and typical i ading of ling	hetorical fur guistically m	nctions (e.g., v ore demandir	various types ig materials.

paragraph structure, linking, 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
	<sup>1</sup> 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 <sup>12</sup> 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 technology and technology and technology and technology and technology and technology. The technology and t	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 termination or intered fiftic the phenomena and structures (e.g. the passive) and over of transing by closes (e.g. importance) with the students M3 Carman for Intermediate Students M3 CardXNP1 German for Andvanced Students P1 The course introduces of the evolution is advantation communication the intermatica correlenses and understandability. CatAXNP1 German for Andvanced Students P1 The course introduces of the overlage and advantation of the students P1 CardXNP1 German for Andvanced Students P1 The course introduces of the students P1 CardXNP1 German for Andvanced Students P2 CardXNP2 CardXNP1 German for Andvanced Students P2 CardXNP1 German for Andvanced Students P2 CardXNP2 CardXNP1 German for Andvanced Students P2 CardXNP2 German for Andvanced Students P2 CardXNP2 German for Andvanced Students P2 CardXNP3 German for Andvanced Students P2 CardXNP3 German for Andvanced Students P2			
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, mathematicate, passive and the structures and there application in communication theorean terms and understandability.           CAXMM3         Certam for Intermediate Students M3         Z         2         2           CAXMM3         Certam for Intermediate Students M3         Z         2         2         2           CAXMM1         Certam for Intermediate Students M3         Z         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <td< td=""><td></td><td></td><td></td></td<>			
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, practice androg about, and appropriate language for various purposes in oral and written communication. The course systematically reviews other grammatical and encomposing the structures (as, the field structure) and the structures (as). The text of the structures (as) the the structure (as), the text of the structures (as), the	subjunctive clauses, gerund, passive.		
the word at the beginning of the 21st centry, linguistically more demanding tests on the environment, the language of mathematics, computers and car technology etc. Students of pencinean inportant for protessional discuss (participies, relative clauses).           OAXNM1         Cerman for Intermediate Students M1         z         2         2           The objective of the ocurse is to level of the students' skills in the German forguage. The ocurse bocase on revision of more difficult phenomera and structures (e.g. the passive) and word formation processes (e.g. impossible, and Germans, current environmental issues together with all necessary expressions and phranes, expressions and phranes, expression and expression pression and is and expression pression and expression pression and and write communication. The ocurse introduced texpression pression and and expression pression and and write communication. The ocurse syntometal between tochology and societary pressions and phranes, expression and and write communication. The ocurse syntometal between tochology and societary pression and and write communication. The ocurse syntometal between tochology and societary and part of the ocurse is the forward on working with technical and expression and phranes.         Z         2         2	04XNM2 German for Intermediate Students M2	Z	2
practice reading for information and reading aloud, and appropriate lenguage for various purposes in oral and writen communication. The course systematically reviews other grammatical prevenues to the other discurses (participates, relative clauses).           OAXNM1         German for Intermediate Students M1         Z         2           To objective of the subustinit's students students within the German language transcurse to place intermediate students and a summa data correct provunciation, grammatical processes (e.g., apportance of veh prefixes). In the linkical part, it covers biols referring to higher education in to the Careh Republic and Germany, current in any intermediate students and its and a discrete provunciation, grammatical correctores and understandability.         Q         2         <			
phenomena important for protessional discourse (participles, testive causes).           OAXINIT         German for Intermediates Students MI         Z         2           Output         German for Intermediates Students MI         Z         2           Attraction of the output is to bend off the students' skills in the German longuage. The output focuses on revision of more difficul phenomen and structures (e.g. the passive) and were dramatic barrows sage to approximate. Just covers tagics referring to higher education in both the Cace Republic and Germany. Current environmental bases together with all necessary expressions and phrases, expressions and phrases regeted to chemistis, mathematical constructures, and a the fundamentals of T terminotical Students SMI         Z         2           The course introduces other more complex germanisatial structures and their application in communication based on technical tests, such as the relation between technology and society, the weed at the beginning of the 21 century. Inguitateding for advisous prevention of the structures in advisous operation of the structure is and care and based to expression and a written communication. The course systematical prevents the relation between technology and society, the world at the beginning of the 31 century. Inguitatedia germal vocabulary, and good communication skills acquired at societary school to be levelled of at the basing of the course. Intermediates (the spring of the 21 century) is the store and their application income spring the 21 century. Inguitated and societary the course is then tocused on working with technical and scientific tests (understanding, summaring, nead-tag) sloud, intermediates spring of a subcenhical test, cassive voice, participles structures) and labs locuses on practical everydgy communication, the structures and test-directical test			
04XINI1         German for Intermediate Students M1         Z         2           The biptice of the sources is to lead of the students studies in the German language The course houses on revision of more difficult phenomena attractures (e.g. the passible) and word formation processes (e.g. importance of very prefares). In the initical pan, incovers topics referring to higher education in both the Cereb Republics and the fundamentals of IT           Very State Sta		matically revises of	her grammatical
The objective of the courses to level of the students' skills in the German language. The course tocses on revision of more difficult phenomena and structures (fig. the passive) and word formation processes (e.g. improvemental issues together with all necessary expressions and phrases, expressio		7	
word formation processes (e.g. importance of web prefixes). In the lixical part, it covers topics referring to higher education in the Cacoh Republic and Germany, current environmental issues topher with an loncessary operasions and phrase, compression and phrase, source and the compression and phrase of the anti-antice, computers and cara technology and society, the work at the baginning of the 21st century, linguistically more demanding tasks on the environment, the language of mathematics, computers and cara technology and society, the work at the baginning of the 21st century, linguistically more demanding tasks on the environment, the language of mathematics, computers and cara technology and society, the work at the baginning of the 21st century. Individes, extended general vocabulary, and good communication skills acquired at secondary school to be foreladed of at the beginning of the course. The course service is then focussed on working with technical and scientific tests and practicing (kitming, scanning, reading technical), there was and devolops more difficult grammar structures necessary for understanding as ubtechnical test (indestanding, summarising, note-taking, interpreting) while extending their general and subtechnical tests, work and the characing as ubtechnical tests (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical tests, with website and and contents, complexes and difficult extensions and tests of nuclear power engineering. Interasting engineering, lineary engin		· – ·	-
environmental issues togething with all necessary expressions and phrases, expressions and phrases, needed to chemists, mathematicians, physicists, and the fundamentals of T terminology. It develops communication on nethed togething and is animal correct pronunciation, grammatical correctness and understandability. O4XNM3 German for Intermediate Students M3 C 2 2 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the retainology web. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomenia important for professional discourse (participales, netative clauses). O4XNP1 German for Advanced Students P1 Z 2 The course is then tocused on working with technical and scientific texts and practising reading technicuse (skimming, scientific, science), science and sevelops more difficul gramma structures necessary for understanding a subtechnical text (passive vice, participles structures) and it also focuses on practical everyday communication, i.e., telephoning. O4XNP2 German for Advanced Students P2 O4XNP3 German for Advanced Students P3 The course divelops the students's skills in working with probessional solentific texts (understanding, summatising, note-taking, interpreting) while extending their general and subtechnical vocabulary range. Introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and practising formal communication, but writter and coll (V), text of application, interview, science, and car technical topics). Students will develop their vocabulary range in fields suita as ouclear power engineering. Teervises information gained from their reading of complex and difficult texts and presential to the desis in a simplified oral form. The course also includes translation, status as translated tor fromo		· -	
terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.           QAXNMS         German for Intermediate Students M3         Z           The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technicity redises during the grammatical appropriate language of matrice appropriate language of matrice appropriate sugary of the Z1 at century, inguistically more demanding texts on the environment, the language of matrice appropriate language of matrice appropriate language of matrice appropriate language of matrice appropriate sugary appropriate language of matrice appropriate language of the Z1 at sectors. The course setorations e there focuse to working with technical and scientific texts and practicing reading technical science appropriate language of matrice appropris		-	
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21 technology etc. Students predice reading for information and reading aloud, and appropriate language for various proposes in oral and written communication. The course systematically revises other grammatical presentes (participles, relative clauses).           OdXNP1         German for Advanced Students P1         2         2           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the foruman. The course systematical tructures is than focused on working with technical and scientific texts and practing reading technology, and evelops, more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participles structures) and it also tocurses on practical everyday communication, i.e., telephoring.         Z         2           O4XNP2         German for Advanced Students P2         Z         2         2           The course develops the students' skills in working with protessional scientific texts (understanding, summarising, note-taking, interpreting) while extending their granization increase voicablary in a variety of less communication, students on a variety of less communication, students are used as the advanced as coursed as coldent room filling in a form. complex grammatical structures (i.e., subjunctive, indirect speech).         Z         2           O4XNP3         German for Advanced Students P3         Z         2         2         2         2			
the world at the beginning of the 21st century, linguistically more demanding tests on the environment, the language of mathematics, computers and car technology etc. Students performera important for professional discourse (participles, relative clauses).           O4XNP1         German for Advanced Students P1         2         2           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled aff at the beginning of the course. The course is then focused on working with technical and scientific tests and practising freading techniques (stimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (understanding, subtechnical text (subsectional scientific texts) and it also focuses on practical everyday communication, i.e., telephoning.         Z         2           O4XNP2         Cerman for Advanced Students P2         Z         2         2         Conset develops the students' skills in working with professional scientific texts (understanding, summarising, not-taking, interprising) while extending their general and subtechnical vocabulary range in flexts such sometrasting and paradising formal communication, both written and raid (SC, letter of application, interview, scholarship), and more complex grammatical absorbechnical texts, the vocabulary range in flexts such as nuclear power engineering, increasing and subtechnical texts, the vocabulary range in flexts such as nuclear power engineering. The environment, computer science, and care technology, will also be extended only authentic professional texts are used. By means of an a paratising formal communication, trading a complex and difficult texts and presential on thore scince.           O4XNP3	04XNM3 German for Intermediate Students M3	Z	2
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative dauses).           O4XNP1         German for Advanced Students P1         Z         2           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled of at the beginning of the course. The course is then focused on working with technical and scientific texts (nassive voice, participles, participle structures) and it also focuses on practical everyday communication, i.e. telephoning.           O4XNP2         German for Advanced Students P2         Z         2         2           The course develops the student's skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical vocabulary range and practising formal communication, both written and ora (CV, letter of application, interview, scholarship), and more complex grammatical structures (iii, auditor), inderview, scholarship), and more complex grammatical structures (iii, auditor), inderview, scholarship), and more complex grammatical structures (iii, auditor), inderview, scholarship), and more complex grammatical structures (iii), auditor vocabulary in a variety of less common situations (infler power engineering, increasing emphasis is placed on understanding and racitsing formal communication studies and caracidents, accident ropert, infling in a form, complants, Based on presentations and technical and subtechnical text, they vocabulary in a variety of less common situations (infler power engineering, the environment, computer science, and car technology, will also be ext	The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between technol	ogy and society,
phenomena important for professional discourse (participies, relative clauses).         QXNP1         German for Advanced Students P1         Z         2           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participie structures) and it also focuses on practical everyday communication, i.e., telephoning.           O4XNP2         German for Advanced Students P2         Z         2         2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and practising formal communication, both written and explores in their weight communication students report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authenic professional texts are used. By means of a presentation, students with previous knowledge of a Russian from secondary schools. Students are supposed to know the Russian and phaset (both printed and handwritten), they crusus is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian aphabet (bot			
O4XNP1         German for Advanced Students P1         Z         2           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the optimized of more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on participal participle structures (skimming, scanning, reading for detail), It reviews and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participle, participle structures) and it also focuses on practical everyday communication, i.e., telephoning.         Z         2         2           O4XNP2         German for Advanced Students P2         Z         2         1         2         2         2         1         2         2         2         2         1         2         2         1         2         2         2         1         1         2         2         2         1         1		matically revises of	her grammatical
This course requires good grammar knowledge, extended general vocabulary, and good communication skills accurate is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, particip			
courses is then focused on working with technical and scientific texts and practising reading techniques (kimming, scanning, reading for detail), It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practical everyday communication, it, letephoning.         Q4XNP2       German for Advanced Students P2       Z       2         The course develops the subdents' stills in working with professional scientific texts (understanding, note-taking, interpreting) while extending their general and subtechnical text stills in working with professional scientific texts (understanding, and practising formal communication, both with man doral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).       Z       2         U4XNP3       German for Advanced Students P3       Z       2       2         The ocurse develops the subdents, succedent report, filling in a form, complaints), sales on presentations and technical and subtechnical text, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, suderins are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified aral form. The course also includes translation practice to and row the Russian for Intermediate Students M1       Z       2         O4XRM1       Russian for Intermediate Students M1       Z       2       2       2       2		1 – 1	
more difficult gramma structures necessary for understanding a subtechnical text (passive voice, participies structures) and it also focuses on practical everyday communication, i.e., telephoning.       Z       2         OdXNP2       German for Advanced Students P2       Z       2         The course develops the students skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical took withen and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).       Z       2         OdXNP3       German for Advanced Students P3       Z       2       2         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations, traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technicagy, will also be extended. Only authenic professional texts are used. By means of a presentation, students of the cause in site influence to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral horm. The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and hardwritten), basic vocabulary for communication in everyday situations (Introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions),			
i.e., telephoning.       Q4XNP2       German for Advanced Students P2       Z       2         The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).       Z       2         O4XNP3       German for Advanced Students P3       Z       2         The course develops the students, accident report, filling in a form, complaints). Based on presentations and technical tasts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabe (both printed and hadwritten), basic vocabulary tor communication in everyday situations (introductions, socializing, greetings, shopping for for and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal form, irregular verbs, pronous). The initial knowledge corresponds to the achievement level of the RZ2 course. The course is based on the RM for course, its correstent sand scope of the course is correspond approximately to the RZ3 course. but for half of the time allotted in the timetable.       Z       2         O4XRM1       Russian for Intermediat			-
The course develops the students' skills in working with professional scientific texts (understanding, note-taking, interpreting) while extending their general and subtechnical vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering, Increasing emphasis is placed on understanding and practising formal communication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).           04XNP3         German for Advanced Students P3         Z         2           The course consists of 3 main parts (general communications, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations inclinations and caracticents, accident report, filling n a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering. the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.           04XRM1         Russian for Intermediate Students M1         Z         2           The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabe (both printed and handwritter), basic vocabulary for communication in everyday situations (introductons, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directors), they can use basic grammar structures (webal and nominal forms, irregular verbs, pronouns). The initial			
vocabulary range. It introduces mathematical expressions and texts of huclear power engineering. Increasing emphasis is placed on understanding and practising formal communication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).           O4XNP3         German for Advanced Students P3         Z         2           The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, computer science, and car technology, will also be extended. Only authenic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.           O4XRM1         Russian for Intermediate Students M1         Z         2           Disc vocabulary for communication in everyday situations (introductions, sciolalizing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contres is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Z         2           O4XRM3         Russian for Intermediate Students M3         Z         2         2           The course is based on the RM1 course, its content	04XNP2 German for Advanced Students P2	Z	2
both writen and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).       Image: CV letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3       Z       2         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts are used. By means of a presentation, students are timated 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.         O4XRM1       Russian for Intermediate Students M1       Z       2         Determine to process correspond approximately to the R25 course, but for half of the time allotted in the furetable.       2       2         O4XRM2       Russian for Intermediate Students M2       Z       2         O4XRM2       Russian for Intermediate Students M2       Z       2         O4XRM2       Russian for Intermediate Students M2       2       2       2         O4XRM3       Russian for Intermediate Students M3       Z       2       2       2         O4XRM2       Russian for Intermediate Students M3		ding their general a	
04XNP3       German for Advanced Students P3       Z       2         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.         04XRM1       Russian for Intermediate Students M1       Z       2         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, ocializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the R23 course, but for half of the time allotted in the timetable.       Z       2         04XRM2       Russian for Intermediate Students M3       Z       2       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z       2       2         04XRM3       Russian for Advanced Stude			
The course consists of a main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.           O4XRM1         Russian for Intermediate Students M1         Z         2           The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.         Z         2           O4XRM2         Russian for Intermediate Students M3         Z         2         2           O4XRM3         Russian for Advanced Students P1         Z         2         2           O4XRM3         Russian for Advanced Students P3         Z <td></td> <td>d practising formal</td> <td></td>		d practising formal	
(traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.         04XRM1       Russian for Intermediate Students M1       Z       2         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian laphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course is to the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2       2         04XRM1       Russian for Advanced Students P1       Z       2       2         04XRM1       Russian for Advanced Students P1       Z       2       2         04XRM1       Russian for Advanced Students P2       Z	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).		communication,
nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German.          O4XRM1       Russian for Intermediate Students M1       Z       2         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (wethal and nominal forms, irregular vets, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The course is based on the RM1 course, its contents M2       Z       2         O4XRM2       Russian for Intermediate Students M2       Z       2       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the time table.       Z       2         O4XRM3       Russian for Advanced Students P1       Z       2       2         The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written interpretation.       Z       2       2	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).04XNP3German for Advanced Students P3	Z	communication,
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.          04XRM1       Russian for Intermediate Students M1       Z       2         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronous). The initial knowledge corresponds to the achievement level of the RZ2 course. The course is based on the RM1 course, its contents and scope or the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.       Z       2         04XRM3       Russian for Intermediate Students M2       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2         04XRP1       Russian for Advanced Students P1       Z       2         04XRP1       Russian for Advanced Students P1       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP1       Russian for Advanced Students P3       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Ru	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).04XNP3German for Advanced Students P3The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v	Z ariety of less comr	communication, 2 non situations
O4XRM1         Russian for Intermediate Students M1         Z         2           The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.         Z         2           O4XRM2         Russian for Intermediate Students M2         Z         2         2           The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Z         2           O4XRM3         Russian for Intermediate Students M3         Z         2         2           The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Z         2           O4XRM1         Russian for Advanced Students M3         Z         2         2           The course is based on RP1         Russian for Advanced Students P1         Z         2         2           O4XRP2         Russian for Advanced Students P2         Z <td>both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the volume</td> <td>Z ariety of less comr vocabulary range in</td> <td>communication, 2 non situations n fields such as</td>	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the volume	Z ariety of less comr vocabulary range in	communication, 2 non situations n fields such as
The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The course is based on the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.          04XRM2       Russian for Intermediate Students M2       Z       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2         04XRM3       Russian for Advanced Students P1       Z       2         04XRP1       Russian for Advanced Students P2       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.	Z ariety of less comr vocabulary range in ed. By means of a p	communication, 2 non situations n fields such as presentation,
basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.          04XRM2       Russian for Intermediate Students M2       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2         The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable.       2       2         04XRP1       Russian for Advanced Students P1       Z       2         04XRP2       Russian for Advanced Students P1       Z       2         04XRP1       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, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3       Russian for Advanced Students P3	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used 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. To the class in a simplified oral form.	Z ariety of less comr vocabulary range in ed. By means of a p	communication, 2 non situations n fields such as presentation,
they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.          04XRM2       Russian for Intermediate Students M2       Z       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2         04XRP1       Russian for Advanced Students P1       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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. T practice to and from German.	Z ariety of less comr vocabulary range in ed. By means of a p he course also incl	communication, 2 non situations n fields such as presentation, udes translation
contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.       Z       2         04XRM2       Russian for Intermediate Students M2       Z       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z       2         04XRM3       Russian for Intermediate Students M3       Z       2         The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable.       Q4XRP1       Russian for Advanced Students P1       Z       2         04XRP2       Russian for Advanced Students P2       Z       2       2         The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from German.         04XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha	Z ariety of less comr vocabulary range in d. By means of a p he course also incl Z bet (both printed a	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten),
04XRM2       Russian for Intermediate Students M2       Z       2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Q4XRM3       Russian for Intermediate Students M3       Z       2         O4XRP1       Russian for Advanced Students P1       Z       2         The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04xRP3       Russia	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask	Z ariety of less comr vocabulary range in d. By means of a p he course also incl Z bet (both printed a king the way and gi	2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions),
The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.       Z         04XRM3       Russian for Intermediate Students M3       Z       2         The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable.       QXRP1       Russian for Advanced Students P1       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04XRP3       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         0	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	Z ariety of less comr vocabulary range in d. By means of a p he course also incl Z bet (both printed a king the way and gi	2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions),
04XRM3       Russian for Intermediate Students M3       Z       2         The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable.       04XRP1       Russian for Advanced Students P1       Z       2         O4XRP2       Russian for Advanced Students P2       Z       2         The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.       Z       2         O4XRP2       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, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.       Z       2         O4XRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and wr	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.	Z ariety of less comr vocabulary range in ed. By means of a p he course also incl Z bet (both printed a king the way and gi t level of the RZ2 of	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), pourse. The
The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable.         04XRP1       Russian for Advanced Students P1       Z       2         The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.       Z       2         04XRP2       Russian for Advanced Students P2       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading tec	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         O4XRM2       Russian for Intermediate Students M2	Z ariety of less comr vocabulary range in ed. By means of a p he course also incl Z bet (both printed a king the way and gi t level of the RZ2 of	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), pourse. The
in the timetable.       04XRP1       Russian for Advanced Students P1       Z       2         The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.       04XRP2       Russian for Advanced Students P2       Z       2         O4XRP3       Russian for Advanced Students P3       Z       2         O4XRP3       Russian for Advanced Students P3       Z       2         Output       Output       Russian for Advanced Students P3       Z       2         Ottake course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.       Z       2         O4XRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick an	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         O4XRM2       Russian for Intermediate Students M2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	Z ariety of less comr vocabulary range in ed. By means of a p he course also incl Z bet (both printed a king the way and gi t level of the RZ2 of Z	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), rourse. The 2
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.         04XRP2       Russian for Advanced Students P2       Z       2         The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04xRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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. T practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         O4XRM2       Russian for Intermediate Students M2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         O4XRM3       Russian for Intermediate Students M3	Z       ariety of less comr       vocabulary range in       vd. By means of a p       he course also incl       Z       bet (both printed a       king the way and git       t level of the RZ2 of       Z       Z	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), course. The 2 2
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills.         04XRP2       Russian for Advanced Students P2       Z       2         The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.       Z       2         04XRP3       Russian for Advanced Students P3       Z       2         04xRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are uses 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 practice to and from German.         04XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         04XRM2       Russian for Intermediate Students M2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         04XRM3       Russian for Intermediate Students M3         The cou	Z       ariety of less comr       vocabulary range in       vd. By means of a p       he course also incl       Z       bet (both printed a       king the way and git       t level of the RZ2 of       Z       Z	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), course. The 2 2
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, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.         04XRP3         Russian for Advanced Students P3         Z         2           The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         O4XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used 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 practice to and from German.         O4XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         O4XRM2       Russian for Intermediate Students M2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         O4XRM3       Russian for Intermediate Students M3         The cou	Z       ariety of less comr       vocabulary range in       vd. By means of a p       he course also incl       Z       bet (both printed a       king the way and git       t level of the RZ2 of       Z       cowever, for half of	communication, 2 non situations oresentation, udes translation 2 nd handwritten), ving directions), course. The 2 2 the time allotted
The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication.         04XRP3       Russian for Advanced Students P3       Z       2         The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on	both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).         04XNP3       German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a v (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use 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 practice to and from Emain.         04XRM1       Russian for Intermediate Students M1         The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask they can use basic 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 timetable.         04XRM2       Russian for Intermediate Students M2         The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         04XRM3       Russian for Intermediate Students M3         The cours	Z       ariety of less comr       vocabulary range in       d. By means of a p       he course also incl       Z       bet (both printed a       ing the way and git       t level of the RZ2 of       Z       powever, for half of	communication, 2 non situations n fields such as presentation, udes translation 2 nd handwritten), ving directions), sourse. The 2 2 the time allotted 2
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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
00EKOT	Economy in Technology The course introduces the basics of micro- and macroeconomics.	Z	1
00ETV	Ethics of Science and Technology	Z	1
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	Z	1
	ised on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	1	
	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an		•
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
	uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional		-
equation and exact side, Euler different of set, completenes	r's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coe- tial equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and s of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fouri nvergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total or Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equation Calculus B 4	fficients and specia d non-isolated poin er series, trigonom derivatives and tan	al right-hand it, boundary etric Fourie
[1] Diferenciální po prom nných, nel	o et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4] l kartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstr unkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.	Regulární zobrazer ukce Lebesgueov	ní, zám <sup>°</sup> na v míry. [7]
01DYKO	Introduction to Continuum Dynamics	Z,ZK	3
The course provide	es a rigorous introduction to the mathematical description of continuum dynamics. In the first part, the necessary mathematical tools	are summarized, f	ocusing on
01LAL	are used subsequently in the derivation of the conservation laws of mass, momentum and energy in both integral and differential forr further adapted to the specific cases of viscous and inviscid fluid and linear/nonlinear elastic body. Linear Algebra 1 . Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of I theorem.	Z	2
product and orthog	Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an onality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonali complements. 6. Geometry exercises and examples. 7. Adjoint operators.	ices. 2. Methods of	calculation
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
	differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	nd conditional conv	-
01MANZ	Calculus 1, exam	ZK	4
01PGR1	Computer Graphics 1	Z,ZK	2
The first part of the a survey of fundame	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and e	of the art technolog planation of the co	ies. Further rresponding
	nowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com the process of authoring scientific documents and presentations.		
graphics. Further, endering. Focus is	Computer Graphics 2 If the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenon a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in prithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic using Blender, an open-source 3D modeling and rendering software instrument.	n of a 3D scene to n a variety of subje	its realistic cts available
01PSL	LaTeX - Publication Instrument The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	Z	2
01RMAF	Equations of Mathematical Physics course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral t	Z,ZK	7 d solution o

01SITE1	Computer Networks 1	Z	2
Understanding the	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro	tocols, practical ex	ercises with
TCP/IP communica	tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth	orities, public key in	frastructure
(PKI). Use in pra	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.	erial control lines, n	nodems)
01SITE2	Computer Networks 2	Z	2
e e	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro		
	tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth		
	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.	erial control lines, n	
01SOS1	Software Seminar 1	Z	2
	Java, Java Beans, Assembly language programming for microprocessors Intel 80x86		
01SOS2	Software Seminar 2	Z	2
Graphical libraries	GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like	operating systems	, especially
	for Linux systems. Portability to Microsoft Windows.		
01UP1	Introduction to Probability 1	Z,ZK	3
	vith finite set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and g		
	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants	value 6.Problems in	wolving the
01UP2	Introduction to Probability 2	Z,ZK	3
	I continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction o	I ' I	-
	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6		
	estimations. 7. Generating pseudorandom numbers from the selected distribution.		ao ioi point
01ZPB1	Introduction to Computer Security 1	Z	2
02DEF1	History of Physics 1	7	2
	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	. – .	_
, ,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I	•	
	as experimental science. Newton and his work.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
02DEF2	History of Physics 2	Z	2
	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach.	lectricity and mag	
electrostatics, galv	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.	The birth of moder	n quantum
and relativistic p	hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er	nergy, Elementary	particles,
	standard model. The concept of Nature and Universe of today.		
02ELMA	Electricity and Magnetism	Z,ZK	6
	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond		he relativity
	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves,		
02KM1	Quantum Mechanics 1	Z,ZK	6
Abstract: The lectur	e describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we	Il as its time evoluti	on. Besides
001/140	that it includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.	771	0
02KM2	Quantum Mechanics 2	Z,ZK	6
	ture expands the introduction to quantum mechanics with more general formalism of quantum theory, approximate methods and path ethods used in various applications of quantum mechanics and prepares the students for an effective scientific research and further stu		
lerninology and me	formulations of quantum field theory.	idy, in particular, or	
02MECH	Mechanics	Z	4
	ysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so		
	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,		
	of a rigid body, rotation.		
02MECHZ	Mechanics - Examination	ZK	2
	The content of the subject is the examination according to the plan of studies.		
02PRA1	Experimental Laboratory 1	KZ	6
Lecture is intended	d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear E	ngineering). But it d	an be also
	ts interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with th	, · · · ·	
of the measuremer	nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati	on of results. At the	same time
	practically extendthe knowledge gained in lectures on physics.		
02PRA2	Experimental Laboratory 2	KZ	6
	d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear E		
	ts interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with th	, · · · ·	
of the measuremer	nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati	on of results. At the	same time
02SMF	practically extend the knowledge gained in lectures on physics. Seminar of Mathematical Physics	Z	2
	Seminal of Mathematical Physics he seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm		
	concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year		
02TEF1	Theoretical Physics 1	Z,ZK	4
	roduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms		
	lynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar		
	on of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles	-	
	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		
02TEF2	Theoretical Physics 2	Z,ZK	4
		, <b>∠</b> r\	
	sformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and		ory in the
		d classical field the	-

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	1 ' 1	-
	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity disi		-
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	I ' I	ical entropy.
Basics of many bo	dy descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical	ensemble, Fermi g	as, models
	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
Wave phenomen	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza	ation, interference, o	diffraction,
coherence. Geo	metrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro	oglie waves,the Sch	nrodinger
	equation, stationary states and spectra of finite systems.		
02ZJFB	Nuclear Physics B	KZ	3
This scientific field	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domai		our classical
	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic plant interesting regions of subatomic pla		
02ZM1	Foundations of Physical Measurements 1	ZK	2
	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 data	a on a PC. Student	s learn the
007140	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. I	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	a on a PC. Student	s learn the
0441/0	basic habits of work in a physics lab.		
04AKS	English Conversation	Z	ill dovoloo
	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		_
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of		
	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical int		
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	7	2
	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more or	n specific grammar,	
	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided		
	revision is included.		
04XAM3	English for Intermediate Students M3	Z	2
The course develop	os the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	al vocabulary and in	
understanding of	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	and their appropria	ndependent ate Czech
understanding of	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 o	and their appropria	ndependent ate Czech
understanding of equivalents. The co	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation o student's field.	and their appropria	ndependent ate Czech
understanding of equivalents. The co 04XAMZK	i professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication of student's field. English for Intermediate Students Examination	and their appropria n a chosen topic re ZK	ndependent ate Czech elated to the
understanding of equivalents. The co 04XAMZK The course cont	i professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication or student's field.  English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts	and their appropria n a chosen topic re ZK s - written (100 min	ndependent ate Czech elated to the
understanding of equivalents. The co 04XAMZK The course contr (20-	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.  English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts and min. The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three B	and their appropria in a chosen topic re ZK s - written (100 min English courses.	ndependent ate Czech elated to the 4 ) and oral
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.      English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1	and their appropria in a chosen topic re ZK - written (100 min English courses. Z	Adependent ate Czech elated to the 4 ) and oral
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi	for professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.      English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1 gned for students who have successfully completed the full secondary school English language course (at least the B1 level of the C	and their appropria n a chosen topic re ZK - written (100 min English courses. Z ommon European	Adependent ate Czech elated to the 4 ) and oral 2 Framework
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for	for professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.      English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1 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 fundament	and their appropria n a chosen topic re ZK - written (100 min English courses. Z ommon European tals of vocabulary,	Adependent ate Czech elated to the 4 ) and oral 2 Framework functions,
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty	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 o	and their appropria n a chosen topic re ZK - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, o	Adependent ate Czech slated to the 4 ) and oral 2 Framework functions, etc). It also
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty	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 o	and their appropria n a chosen topic re ZK - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, o	Adependent ate Czech slated to the 4 ) and oral 2 Framework functions, etc). It also
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professional	I professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication or student's field.  English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three filling 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 fundament le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g loral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w polite request). If necessary, revision of selected grammar topics is included.	and their appropria n a chosen topic re ZK s - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, ( riting a CV, letter of	Adependent ate Czech slated to the 4 ) and oral 2 Framework functions, etc). It also application,
understanding of equivalents. The co 04XAMZK The course cont (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.     English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1 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 fundament le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g I oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w         polite request). If necessary, revision of selected grammar topics is included.     English for Advanced Students P2	and their appropria in a chosen topic re ZK - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, o riting a CV, letter of Z	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2
understanding of equivalents. The co 04XAMZK The course cont (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2 The AP2 course is	I professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.           English for Intermediate Students Examination           ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three the English for Advanced Students P1           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 fundamentale typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g loral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w polite request). If necessary, revision of selected grammar topics is included.           English for Advanced Students P2           based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brains and written communication student's skills for working with subtechnical texts, and even with professional texts of chosen brains and physics is a skills for working with subtechnical texts, and even with professional texts of chosen brains and physics is a skills for working with subtechnical texts, and even with professional texts of chosen brains and physics is a skills for working with subtechnical texts, and even with professional texts	and their appropria in a chosen topic re ZK - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, or riting a CV, letter of Z nches of science. A	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2 xccording to
understanding of equivalents. The co 04XAMZK The course cont (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2 The AP2 course is the students' need	Professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.  English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three the English for Advanced Students P1 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 fundament le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g loral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w polite request). If necessary, revision of selected grammar topics is included. English for Advanced Students P2 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 structures	and their appropria in a chosen topic re ZK s - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, or riting a CV, letter of Z nches of science. A al functions (e.g., va	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2 According to arious types
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understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2 The AP2 course is the students' need of descriptions, an The course extend 04XAP3 The AP3 course is communication sk also preparing a 04XAPZK The course conten in the three AP 04XCESM1 The course is focus	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication student's field. English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1 greated 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 loral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorics d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical s the student's subtechnical vocabulary, and includes fundamental notions of chosen brances of science. It is focused on formal writ paragraph structure, linking, cohesion and coherence in texts. English for Advanced Students P3 based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ill and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang communication. English for Advanced Students Examination is the examination as given by the study plan. The student is supposed to demon	and their appropria in a chosen topic re- ZK s - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, or riting a CV, letter of Z nches of science. A al functions (e.g., va ly more demanding ing including the se cludes training oral g an abstract) and, uage both in oral a ZK apply their knowled the student's field Z tudent's vocabulary ng skills and trains	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2 according to arious types g materials. entence and 2 and written if possible, nd written 4 ge obtained of study. 2 y for various 2 the student
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2 The AP2 course is the students' need of descriptions, an The course extend 04XAP3 The AP3 course is communication sk also preparing a 04XAPZK The course conten in the three AP 04XCESM1 The course is focus 04XCESM2 The course develo	iprofessional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication uruse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field.  English for Intermediate Students Examination and M3 courses and consists of two parts and minimum and M3 courses and consists of two parts and minimum as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts and minimum as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts and minimum as expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three I English for Advanced Students P1 great 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 fundament le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g loral and written communication on topics related to the undergraduate 's life and needs. It develops skills for free professional texts of chosen bra is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical s the student's subtechnical text, 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 d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical s the student's subtechnical text and eventom wi	and their appropria in a chosen topic re- ZK s - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, or riting a CV, letter of Z nches of science. A al functions (e.g., va ly more demanding ing including the se cludes training oral g an abstract) and, uage both in oral a ZK apply their knowled the student's field Z tudent's vocabulary ng skills and trains	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2 according to arious types g materials. entence and 2 and written if possible, nd written ge obtained of study. 2 y for various 2 the student 2
understanding of equivalents. The co 04XAMZK The course contr (20- 04XAP1 The course is desi of Reference for grammar, and sty covers professiona 04XAP2 The AP2 course is the students' need of descriptions, an The course extend 04XAP3 The AP3 course is communication sk also preparing a 04XAPZK The course conten in the three AP 04XCESM1 The course is focus 04XCESM2 The course develo	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication student's field. English for Intermediate Students Examination ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 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 for Advanced Students P1 greated 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 loral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorics d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical s the student's subtechnical vocabulary, and includes fundamental notions of chosen brances of science. It is focused on formal writ paragraph structure, linking, cohesion and coherence in texts. English for Advanced Students P3 based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in ill and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang communication. English for Advanced Students Examination is the examination as given by the study plan. The student is supposed to demon	and their appropria in a chosen topic re- ZK s - written (100 min English courses. Z ommon European tals of vocabulary, raph descriptions, or riting a CV, letter of Z nches of science. A al functions (e.g., va ly more demanding ing including the se cludes training oral g an abstract) and, uage both in oral a ZK apply their knowled the student's field Z tudent's vocabulary ng skills and trains	Adependent ate Czech elated to the 4 and oral 2 Framework functions, etc). It also application, 2 according to arious types g materials. entence and 2 and written if possible, nd written ge obtained of study. 2 y for various 2 the student 2

04XCESMZK	Czech for Intermediate Students Examination	ZK	4
	ht is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	M1,2,3 courses ar	nd can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe		
	on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sci		•
basics of function	hal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S	Student Life. Writte	n practice
0.41/05050	includes communication with teachers and faculty administrators.		0
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and emphasis on individual work.	specialist texts pla	cing greater
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	bs the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	I – I	1
	student's project. Writing skills necessary for professional communication are trained.	and, many, presen	
04XCESPZK		ZK	4
	t is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES		-
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		ia can ciny
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) ;	1
	lage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication		-
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.		
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
The language and	communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and con	njugation system a	ind practise
	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.		
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
	er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on		
fixing correct pronu	inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce	simple texts and the	hey practise
frequent types of di	ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	lessons 5-7 in e	ština expres
	1.		1
04XCESZZK		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	es 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		
	mmunicate 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, persol	-	
	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
	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science tex	I – I	1
	guage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie		
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	-	
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	ordinate and infinit	tive clauses,
participle structur	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cla	ss. The paper is lin	nked to the
field of students' fu	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work	compiled from Fre	ench articles
	e's own knowledge/experience Longer monologues on topics /situations set for the examination are prepared. Text structure, cohesi		
04XFMZK	French for Intermediate Students Examination	ZK	4
The content is the	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o		xamination
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the well		
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 writte		
	icate 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 repe		-
· ·	aparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics		
request, answer to	an advert, environmental issues, success or French science and technology, chosen topics from French regional culture, Paris. Topics internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation		au challes,
04XFP2	French for Advanced Students P2	Z	2
	contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on g		1
	technical and scientific communication are stressed (passive voice, nominalization, word formation).		So Gpical OI
04XFP3	French for Advanded Students P3	Z	2
	ed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in en	I – I	1
	f shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover		-
	topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.	· · · · · · · · · · · · · · · · · · ·	
04XFPZK	French for Advanced Students Examination	ZK	4
	program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a	1	1
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr	-	J
04XFZ1	French for Beginners Z1	Z	2
	rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soc	I –	1
-	es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
level, actively u	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravo	lová, 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, pe		•
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu 04XFZ2 French for Beginners Z2		
04XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the	∠   textbook: Pravda -	2 Pravdová <sup>·</sup>
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 - Pra Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for inf		-
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		as part or
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 builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The course builds up on FZ3.	1 – 1	
lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture	e notes French for E	Engineering
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp	-	rsity in our
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	1 1	
04XFZ5 French for Beginners Z5 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	Z	2 class Tho
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		
subjunctive clauses, gerund, passive.		
04XFZZK French for Beginners Examination	ZK	3
The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examin	ation is ruled by the	e document
Instruction 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		2
word formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu		-
environmental 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 under	standability.	
04XNM2 German for Intermediate Students M2	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be		-
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemation phenomena important for professional discourse (participles, relative clauses).	ically revises other g	grammatical
04XNM3 German for Intermediate Students M3	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation by	1 – 1	
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	car technology etc.	Students
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati		
	ically revises other g	grammatical
phenomena important for professional discourse (participles, relative clauses).		
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination	ZK	4
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination	ZK consisting of two pa	4 arts - written
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination	ZK consisting of two pa	4 arts - written
O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment	ZK consisting of two pa	4 arts - written
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessming to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve	ZK consisting of two pa ent. More detailed i Z	4 Irts - written nformation 2 ning of the
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessming to be obtained from the teacher.           O4XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for determine)	ZK consisting of two pa ent. More detailed i Z lled off at the begin letail). It revises and	4 Ints - written Information 2 Ining of the d develops
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessming to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practional structures is the structures of the str	ZK consisting of two pa ent. More detailed i Z lled off at the begin letail). It revises and	4 Ints - written Information 2 Ining of the d develops
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmination is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practise., telephoning.	ZK consisting of two pa ent. More detailed i Z lled off at the begin letail). It revises and ctical everyday com	4 Ints - written Information 2 Ining of the d develops Imunication,
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmination is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2	ZK       consisting of two pa       ent. More detailed i       Z       Iled off at the begin       letail). It revises and       ctical everyday com       Z	4 arts - written nformation 2 ning of the d develops munication, 2
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmination is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practise., telephoning.	ZK       consisting of two pa       ent. More detailed i       Z       Iled off at the begin       letail). It revises and       ctical everyday com       Z       g their general and s	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be lever course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending	ZK       consisting of two pa       consisting of two pa       ent. More detailed i       Z       Iled off at the begin       letail). It revises and       ctical everyday com       Z       g their general and s       actising formal com	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probability of understanding, interpreting) while extending workality range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probability of understanding, interpreting) while extending workality and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indit 04XNP3 <td>ZK       consisting of two pa       ent. More detailed i       Z       Iled off at the begin       letail). It revises and       ctical everyday com       Z       g their general and s       actising formal com       irect speech).       Z</td> <td>4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2</td>	ZK       consisting of two pa       ent. More detailed i       Z       Iled off at the begin       letail). It revises and       ctical everyday com       Z       g their general and s       actising formal com       irect speech).       Z	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practile, telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probability of understanding, interpreting) while extending working writhen and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indication, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indications, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indications, grammar and techni	ZK         consisting of two pa         ent. More detailed i         Z         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 subtechnical munication,
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on praine. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and proboth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicative consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	ZK         consisting of two pa         ent. More detailed i         Z         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in field	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 subtechnical munication, 2 subtechnical munication 2 subtechnical munication
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probet written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicate course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnica	ZK         consisting of two pa         consisting of two pa         ent. More detailed i         Z         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 situations Ids such as sentation,
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for dimore difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on praine. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and proboth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicative consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	ZK         consisting of two pa         consisting of two pa         ent. More detailed i         Z         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 situations Ids such as sentation,
phenomena important for professional discourse (participles, relative clauses).           04XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading or donor difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practine.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and proboth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicate problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voci (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentit to the class in a simplified oral form. The ore	ZK         consisting of two pa         consisting of two pa         ent. More detailed i         Z         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 situations Ids such as sentation,
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practice, telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probative, scholarship), and more complex grammatical structures (i.e., subjunctive, indited of the course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accident, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca nuclear power engineering, th	ZK         consisting of two parents         consisting of two parents         consisting of two parents         Iled off at the begin         letail). It revises and         ctical everyday come         Z         g their general and s         actising formal come         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parents	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, s translation 4 rts - written
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and privo both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi 04XNP3           04XNP3         German for Advanced Students P3           The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic	ZK         consisting of two parents         consisting of two parents         consisting of two parents         Iled off at the begin         letail). It revises and         ctical everyday come         Z         g their general and s         actising formal come         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parents	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, s translation 4 rts - written
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles tructures) and it also focuses on praine. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probability in a working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and proboth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical and subtenchical texts, the voci (trafic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtenchical texts, the voci unclear power engineering. Increasing and technical and subtenchical texts, the voci (trafic problems and car accidents, accident report, filling in a form, complaints). Based on presentati	ZK         consisting of two parent. More detailed if         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parent	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, s translation 4 rts - written e detailed
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination or and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessme is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practing develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probet written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicative students, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca nuclear power engineering. Increasing emphasis is placed on understanding and probet writter part accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca nuclear power engineering. Increasing emphasis is placed on understanding a	ZK         consisting of two parent. More detailed if         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel.         By means of a pre         course also includes         ZK         consisting of two parent. More         Z         Z	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, 5 translation 4 rts - written a detailed 2
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participles students) and it also focuses on partice, telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and protocol working with professional scientific texts (understanding and protocol witten and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, ind 04XNP3           German for Advanced Students P3           The course consists of 3 main parts (general communicative, signarmar and technical and subtechnical texts, t	ZK         consisting of two parent. More detailed i         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and has	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 situations Ids such as sentation, 5 translation 4 rts - written e detailed 2 andwritten),
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination or and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessme is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practing develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probet written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indicative students, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca nuclear power engineering. Increasing emphasis is placed on understanding and probet writter part accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca nuclear power engineering. Increasing emphasis is placed on understanding a	ZK         consisting of two parent. More detailed i         consisting of two parent. More detailed i         Iled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel.         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and has         the way and giving	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, 5 translation 4 rts - written e detailed 2 andwritten), directions),
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participles structures) and it also focuses on practice, the teacher.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understrading, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probe the written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indito 40XNP3           German for Advanced Students P3         The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accidents, acc	ZK         consisting of two parent. More detailed if         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel.         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and has         the way and giving         level of the RZ2 com	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, 5 translation 4 rts - written e detailed 2 andwritten), directions),
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive vice, participles, participle structures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students'skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering, Increasing emphasis is placed on understanding and probability representations and technical and subtechnical texts, the voca nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts, the voca nuclear power engineering, the environment, computer science, and difficult texts and presentiation and presentiation at eutary in a vari (traffic problems and car accidents, accident report, filling in a form	ZK         consisting of two parent. More detailed if         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel.         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and has         the way and giving         level of the RZ2 couple.         Z	4 arts - written nformation 2 ning of the d develops munication, 2 aubtechnical munication, 2 a situations Ids such as sentation, 5 translation 4 rts - written e detailed 2 andwritten), directions),
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmession is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for domore difficult grammar structures necessary for understanding a subtechnical text (understanding, summarising, note-taking, interpreting) while extending vocabulary range develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and probative situations, grammar and technical topics). Students will develop their vocabulary in a vari (traffic problems and car accidents, accident report, lifting in a form, complaints). Based on presentations and technical and subtechnical texts, the vocc nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used, students are trained to process information agiven by the study plan. The whole German for Advanced Students Course is completed by an examination a and oral, which c	ZK         consisting of two parent. More detailed if         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday com         Z         g their general and s         actising formal com         irect speech).         Z         ety of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and had the way and giving         level of the RZ2 corole.         Z         ne timetable.	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 subtechnical munication, 3 sentation, 4 rts - written e detailed 2 andwritten), directions), urse. The 2
phenomena important for professional discourse (participles, relative clauses).           O4XNMZK         German for Intermediate Students Examination           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm is to be obtained from the teacher.           04XNP1         German for Advanced Students P1           This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles tructures) and it also focuses on pra i.e., telephoning.           04XNP2         German for Advanced Students P2           The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and proceed structures (exelops the students' skills in working with professional scientific texts (understanding), summarising, note-taking, interpreting) while extending 04XNP3           The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students Will develop their vocabulary in a vari (traffic problems and car accidents, accident report, filling in a form, complaint	ZK         consisting of two parent. More detailed i         consisting of two parent. More detailed if         Z         lled off at the begin         letail). It revises and         ctical everyday common         Z         g their general and s         actising formal common         by of less common         abulary range in fiel         By means of a pre         course also includes         ZK         consisting of two parent         d assessment. More         Z         (both printed and had the way and giving         level of the RZ2 compose         Z         z <td< td=""><td>4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 subtechnical munications Ids such as sentations Ids such as sentation, s translation 4 rts - written e detailed 2 andwritten), directions), urse. The 2</td></td<>	4 arts - written nformation 2 ning of the d develops munication, 2 subtechnical munication, 2 subtechnical munications Ids such as sentations Ids such as sentation, s translation 4 rts - written e detailed 2 andwritten), directions), urse. The 2
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04XRMZK Russian for Intermediate Studen	ts Examination ZK	4
		1 - 1
The course content is the examination as given by the study plan. The course is completed by tak		
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a s		
04XRP1 Russian for Advanced Stu		2
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the c		lt grammar
structures, understanding the fundamentals of techn	nical language and training writing skills.	
04XRP2 Russian for Advanced Stud	dents P2 Z	2
The course is based on RP1. It expands grammatical structures important for understanding tec	chnical texts (verbal adjectives, participles, passives, verb aspects, specif	ic syntactic
structures). Stress is put on independent or	ral and written communication.	
04XRP3 Russian for Advanced Stu	dents P3 Z	2
The course is based on RP2 and is mainly focused on working with technical and scientific texts	I	-
courses require good previous knowledge of general language at secondary level (listening, read		
these skills. Further study is aimed at professional and technical skills (reading technical literatur		
develop their subtechnical vocabulary and practice quick and correct communication in profession		· .
04XRPZK Russian for Advanced Students		4
The course content is the examination as given by the study plan. The course is completed by tal		
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a s	successful written examination. Students are given instructions by the tea	cher.
04XRZ1 Russian for Beginners	s Z1 Z	2
The course represents the first stage of the five-semester programme, its final aim being reading a	and understanding professional texts written in Russian. Thus it begins wi	th mastering
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessar	ry for everyday communication (listening and speaking). Students will be	able to read
a short text with marked stress, understand		
04XRZ2 Russian for Beginners		2
The second semester of the programme is designed to teach skills for basic communication in ev		
able to communicate using short sentences and appropriate structures, and read aloud with confi		
		abulary and
master further grammatical structures. They will have mastered with confid		
04XRZ3 Russian for Beginners		2
The course is based on RZ2 and includes further everyday topics, develops understanding of shor		-
and listening) and introduces new grammar. Students will be trained to distinguish intonation pa	atterns while listening to spoken language. They will be able to respond s	o as to be
understood, and to express their opinion. Writing skills will be	e trained on guided writing tasks and note-taking.	
04XRZ4 Russian for Beginners	s Z4 Z	2
The course is based on RZ3. It improves and expands the knowledge of general language in all fou		of unfamiliar
words, oral communication in everyday situations, writing longer texts). Students are trained to u		
from Czech, modality, imperatives, conditionals). They practice and develop communication ski		
communication on more specific topics (environment, addictions, the green movement). They be		
forms, look up the information from the timetable, learn		
04XRZ5 Russian for Beginners	s Z5 Z	2
The course expects the student to have completed RZ4. It concentrates predominantly on reading	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s	summarizing
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profes	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s ssional information obtained by reading the texts. Communication skills are	summarizing re trained on
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profest everyday topics. Studying grammar is based on professional and technical texts and only included texts and only included texts.	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s ssional information obtained by reading the texts. Communication skills ar es items typically used in professional communication (verbal adjectives,	summarizing re trained on
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profes	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s ssional information obtained by reading the texts. Communication skills ar es items typically used in professional communication (verbal adjectives,	summarizing re trained on
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profest everyday topics. Studying grammar is based on professional and technical texts and only include	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s ssional information obtained by reading the texts. Communication skills and es items typically used in professional communication (verbal adjectives, also trained in some professional skills (writing a CV, polite request, etc.)	summarizing re trained on
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profes everyday topics. Studying grammar is based on professional and technical texts and only include passive voice). Students develop their technical and economic vocabulary, and are a	s Z5 Z skills (working with professional texts, i.e. understanding, extracting and s ssional information obtained by reading the texts. Communication skills and es items typically used in professional communication (verbal adjectives, also trained in some professional skills (writing a CV, polite request, etc.) amination ZK	summarizing re trained on participles, 3
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The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profess everyday topics. Studying grammar is based on professional and technical texts and only include passive voice). Students develop their technical and economic vocabulary, and are a 04XRZZK Russian for Beginners Exa The course content is the examination as given by the study plan. The course is completed by tal - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a such as the study of the study	s Z5       Z         skills (working with professional texts, i.e. understanding, extracting and sister and sister and signal information obtained by reading the texts. Communication skills are es items typically used in professional communication (verbal adjectives, also trained in some professional skills (writing a CV, polite request, etc.)         amination       ZK         king a written and oral examination testing the knowledge and skills are unccessful written examination. Students are given instructions by the teat	summarizing re trained on participles, 3 uired in RZ1 cher.
The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profess everyday topics. Studying grammar is based on professional and technical texts and only include passive voice). Students develop their technical and economic vocabulary, and are a 04XRZZK         O4XRZZK       Russian for Beginners Exa         The course content is the examination as given by the study plan. The course is completed by tal - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a study of 04XSM1	s Z5       Z         skills (working with professional texts, i.e. understanding, extracting and sister and information obtained by reading the texts. Communication skills are es items typically used in professional communication (verbal adjectives, also trained in some professional skills (writing a CV, polite request, etc.)         amination       ZK         king a written and oral examination testing the knowledge and skills are uccessful written examination. Students are given instructions by the team         udents M1       Z	summarizing re trained on participles, 3 uired in RZ1 cher. 2
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The course expects the student to have completed RZ4. It concentrates predominantly on reading information from a specialized text) and speaking, and to a certain extent, writing about the profess everyday topics. Studying grammar is based on professional and technical texts and only include passive voice). Students develop their technical and economic vocabulary, and are a O4XRZZK RUSSIAN Course is completed by tail and economic vocabulary and are a of the course content is the examination as given by the study plan. The course is completed by tail - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a si O4XSM1 Spanish for Intermediate Stut. The course is designed for students whose competence is at level B1 of CEFR, i.e. those who is vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfer subjunctive), to written and oral communication on a given everyday or easy subtechnical O4XSM2 Spanish for Intermediate Stut. The course develops the students' knowledge from the previous course (SM1). Students are gramable to work with specialized text able to work with specialized text able to work with specialized text able to work with specialized to final part of the programme, general Spanish for Intermediate Student the course content is the examination as given by the study plan. XSMZK examination consist obtained non-graded assessment for course XSM3. O4XSMZK Spanish for Intermediate Student for Advanced Sture Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for Advanced Sture of CEFR is the second part of the advanced Spanish course, extending Spanish for Advanced Sture of CEFR is the second part of the advanced Spanish course. It is based on texts chosen by the students will ne course XSP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students will ne course XSP3 is the final part of the advanced Spanish course. It is based on texts chosen by the st	s Z5       Z         skills (working with professional texts, i.e. understanding, extracting and a ssional information obtained by reading the texts. Communication skills are sitems typically used in professional communication (verbal adjectives, also trained in some professional skills (writing a CV, polite request, etc.)         amination       ZK         king a written and oral examination testing the knowledge and skills acquuccessful written examination. Students are given instructions by the teatudents M1       Z         studied Spanish in the secondary school. The 3-semester course develop ecto, direct object and indirect object pronouns, negative form of the impeditopic, for which the students are trained by reading texts or listening to the udents M3       Z         adually acquainted with fundamentals of Spanish for specific purposes in exits on the Internet.       Z         udents M3       Z         a gradually acquainted with the peculiarities of academic style. They will b interest. Students will use the information to write short articles and sum covers presentations and, finally, a written and oral examination.       ZK         ts of two parts: written and oral; to be eligible for the written part, students Oral examination follows the written part.       Z         dents P1       Z       Z         or specific purposes as well as written communication. Course prerequisit       Z         dents P2       Z       Z         purposes topics. It comprises more grammar and syntax and focuses on ration.       Z         d	summarizing re trained on participles, a a a a a a a a a a a a a a a a a a a

04XSZ1	Spanish for Beginners Z1	Z	2
	he first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	I – I	
	to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa	-	
04XSZ2	Spanish for Beginners Students Z2	Z	2
	based on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures an	I – I	
	nderstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a		
		Ind others such as t	the Gzech
0.41/070	Republic. Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
	s upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include		
and cultural contex	xt of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including	he pretérito perfect:	to, pretérito
indefinido, pretérit	to imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics.	Students are prepar	red for this
	through targeted reading and listening activities.		
04XSZ4	Spanish for Beginners Z4	Z	2
The course is base	ed on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countries	s, mainly of
Spain. It pays atte	ention 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 listeni	ng to them.	
04XSZ5	Spanish for Beginners Z5	Z	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for	I – I	
	part, the general Spanish course based on the course book will end with a written and oral examination.		
0.41/0.771/		71/	
04XSZZK	Spanish for Beginners Examination	ZK	3
The course cont	tent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if he	e/she has
<u> </u>	passed the written examination test.	·	
11BSEM	Bachelor Seminar	Z	1
In the first part of the	he seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	irements for bache	lors degree
projects at the fac	culty. The second part is designed as a practical training for the defence of the bachelors degree project. The students give oral preser	ntations of the curre	ent state of
the research result	ts achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possib	ilities of improving th	he students
	performance.		
11SFIPL	Seminar on Solid State Physics	KZ	2
	the Seminar and ?SSS? software features. 2.Module "bravais" - crystal structure and X-ray diffraction in 2D ? theory 3.Simulations of	I I	
	es: crystal lattice versus crystal structure, primitive cell, elementary cell, lattice plane, reciprocal grid, Laue and Bragg condition, atom	-	
-	ractical structural analysis 4. Module "laue" - Diffraction on perfect and imperfect crystals 5. Simulations: influence of structural disorder on	-	
	scillations, quasi crystals 6."born" module - dynamics of crystalline grid in 1D ? theory 7.Simulations: planar waves, traveling and stand	-	
	y and momentum transport, infinite chain, chain of finite lenght, boundary conditions, wave packets, group and phase velocity, dispersion	-	
-		-	
	anharmonicity 8. "debye" module - lattice dynamics and thermal capacity ? theory 9. Simulations: Brillouine zone, dispersion relation, de	-	
	drude" module - dynamics of classical electron gas in 2D ? theory 11. Simulations: diffuse electron movement, electron drift in an external electron drift i		-
Shockley experime	ent, electron mobility, electron motion in magnetic field, cyclotron frequency, Hall experiment, magnetorezistence 12. Assignment, elab	pration and present	ation of the
	seminar work.		
11ZFP	Basic to Solid State Physics	ZK	3
-	damental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bondin	-	
solids, various type	es of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basi	c thermal properties	s of crystals
are derived. The	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in	n solids by means o	of electron
energy bands ex	xplained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to	systematically introc	duce and
	interpret a broad phenomenological basis of physical properties of crystalline solids		
11ZFPL	Basic to Solid State Physics	KZ	2
Description of fund	amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bondin	g interaction betwee	en atoms in
solids, various type	es of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basi	c thermal properties	s of crystals
	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in		
	xplained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to		
	interpret a broad phenomenological basis of physical properties of crystalline solids	,,	
12AUX	Administration of UNIX System	KZ	2
IZAUA			2
4000514	Basic and more advanced administration of Unix operating system	<b></b>	-
12BPFI1	Bachelor Project 1	Z	5
The bachelor proje	ect is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the pro-	ect supervisor durir	ng common
	regular meetings and discussions.		
12BPFI2	Bachelor Project 2	Z	10
	ect is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the programme,	ect supervisor durir	ng common
	regular meetings and discussions.		
12MOF	Molecular Physics	ZK	2
	ideas on physics of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular struct	I I	-
12NME1	Numerical Methods 1	Z,ZK	4
		1 / 1	-
	ed the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me		-
important for phys	sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computation to the basic numerical methods.	Ional environment N	VIAI LAB IS
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12NT	Nanotechnology	ZK	2
Lectures will intro			daments of
	duce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physica	I and chemical func	
	duce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physica ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technological technological substantive attention will be devoted to epitaxial technological substantive attention will be explained.		
different technolo		gies which are subs	stantial for
different technolo nanostructure pre	ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technology	gies which are subs rostructure and nan	tantial for
different technolo nanostructure pre	ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technologe paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for hete	gies which are subs rostructure and nan	tantial for
different technolo nanostructure pre growths will be dis	ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technologe eparation. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for hete scussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric layer as well as soldering and encasement.	gies which are subs rostructure and nan	tantial for
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12POAL	Computer Algebra	KZ	2
Lisp, representation	n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, s	implification, greate	est common
divisor, resultant,	derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subs	titution and pattern	matching,
algebraic program	ning, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsy	ma, Mathematica),	miniproject.
12PYTH	Scientific Programming in Python	Z	2
	irse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place		
	ourse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude		
-	ng research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or	• -	-
greater part of tr	the course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.	/ and the Matplotlib	graphics
12UFN	Introduction to Photonics and Nanostructures	KZ	3
	tructures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanoplasm	I I	-
	fibers; integrated photonics; computer simulations; technological realization; student presentations	ionics, optical wave	guides and
12ULTB	Introduction to Laser Technique	KZ	3
	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers	I I	-
	laser amplifier, Q-switching, mode-locking.		
12UNXAP	Introduction to UNIX	Z	2
	pperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	I – I	
	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi		
	reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard t		
X-windows. Cor	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	omputer. Network	services:
	hardware sharing, mail, scp, etc. Network applications		
12UPF1	Introduction to Computational Physics 1	Z,ZK	2
	on and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program		-
tools for scientific v	isualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance	computing, parallel	computing,
4	software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.	·· - ·	
12UPF2	Introduction to Computational Physics 2	Z,ZK	2
Nonlinear models,	complex systems, chaotic systems, fractals and their applications in physics. Artificial intelligence methods: neural networks, machin	e learning, genetic	algorithms,
	expert systems and their applications in physics. Quantum computing. Virtual reality.	7	<u> </u>
12UVP	Introduction to Scientific Computing		2
Practically offente	ed Introduction to scientific computing. Constituent part of the course is realized in computer classroom.Students get acquinted with s and technicval computing, data analysis, data visualisation and algorithm development.	ome basic tools to	t scientific
12VPMF		7	3
	Selected Topics in Modern Physics Irse is to improve students knowledge in modern parts of physics (such as measuring of gravitational waves, neutrinos, discovery of	. – .	-
	with a partial help of computer algebra systems (e.g. Maple). Apart from the other courses related to modern physics taught in this st		
	ed mathematical formalism of studied phenomena. Therefore, the secondary aim is the increase of students motivation for deeper un		
	and its laws in their following study		on physics
12VTV	Scientific and Technical Computing	7	2
	familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their program	iming. The course i	
-	mainly to programming in the Fortran language.	-	
12ZAOP	Fundamentals of Optics	Z,ZK	2
The lecture covers	s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome	trical optics. The m	ain goal of
the lecture is to of	otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respec	ct to character of th	e bachelor
work. Particular top	pics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in	vacuum (including	polarization
· · ·	ther from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next i		
	, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference		
	rence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic	-	
	n. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optic		geometrical
12ZEL1	Basic Electronics 1	Z,ZK	3
	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	I ' I	
	e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	-	
12ZEL2	Basic Electronics 2	Z,ZK	3
	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	· · ·	
12ZELD	Fundamentals of Electrodynamics	Z,ZK	2
	derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory of re		
transformation of fie	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By expar	nsion into plane mor	nochromatic
waves methods	of solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with abs	soption, with disper	sion, and
	ic. Finally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by	appropriate exam	ples.
12ZFD	Physical Data Visualization	KZ	2
	Vector graphics basics, scientific plots, dala visualization basics, measurements results presentation		
12ZFP	Principles of Plasma Physics	Z,ZK	. 4
	gh temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, line	=	-
	electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and paramic comprises brief introduction into magnetohydrodynamics and puckers fusion. Basics of atomic physics of multiply-ionized plasmas at		e explained.
	comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas a		<u> </u>
12ZFS	Fundamentals of Photonic Structures	Z,ZK	2
	the basics of photonic structures, it classifies photonic structures compares them with the electronic structures, summarizes their pre-	-	
	e lecture discusses the basic physics and technology of optical waveguides; it introduces basic linear, nonlinear, and active structures ptical communications and sensors. Next, the attention is given to introduction of plasmonic structures and plasmonics, periodic struct		
	netasurfaces, and finally to photonic structures for quantum technologies. Finally, the lecture is closed with student presentations on	-	-
	excursions to selected photonic laboratories.		
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12ZMDT	Measurement and Data Processing	Z,ZK	2
Basic knowledge for	or the measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeties,	data fitting, separa	ation of the
	signal from the noise.		
14TED	Creating Electronic Documents	Z	2
Basic skills for creat	ing and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentation	ns and entire docu	iments in an
	office suite.		
15CH1	General Chemistry 1	Z	3
The most important	concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	se are illustrated b	by examples
	solved in exercises.		
15CH2	General Chemistry 2	Z,ZK	3
The subject is the co	ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using v	arious 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 i	illustrated by exam	nples solved
	in exercises.		
18PJ	Programming in Java	Z,ZK	5
	This course is devoted to the Java platform and to the development of the basic types of applications for this platform.		
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.		
18PRC2	Programming in C++ 2	KZ	4
This co	urse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library.	
18PROP	Practical training in programming	KZ	3
The goal of this co	purse is to understand advanced topics related to programming, code design and software project development. Students will practic	e pragmatic techn	iques and
principles on concre	te real-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers work effic	ciency and ensure	high quality
	of the final source code.		
18ZALG	Basics of Algorithmization	Z,ZK	4
This course is	devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of t	the algorithm com	plexity.
18ZPRO	Basics of Programming	Z	4
	tended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	aming and with the	e Python
This course is in	······································	inning and with the	
This course is in	programming language.	nining and with the	-
This course is in B0B36JUL		KZ	4
B0B36JUL	programming language.	KZ	
B0B36JUL Julia programming la basics of Julia. The	programming language. Julia for optimization and learning anguage is increasingly known by the community for its suitability in the field of numerical calculations. The course consists of two pa second part introduces mathematical optimization and its application in machine learning, statistics and optimal control of differential	KZ arts. The first part p l equations. While	presents the the first part
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For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-20, time 01:03.