### Study plan

## Name of study plan: Fyzikální inženýrství - Fyzika plazmatu a termojaderné fúze

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: Povinné p edm ty specializace Minimal number of credits of the block: 0 The role of the block: PS

Code of the group: BSPFIFPTF1 Name of the group: BS P\_FIB FPTF 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

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
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.)	Z,ZK	6	4+2	L	PS
01LAL	Linear Algebra 1 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 Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Severin Pošta, Miroslav Kolá, Edita Pelantová Miroslav Kolá Severin Pošta (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.)	Z	4	4+2	Z	PS
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David B e , Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný 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
02SFP	Seminar in Plasma Physics Jana Brotánková Vojt ch Svoboda (Gar.)	Z	2	0P+2S	L	PS
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	PS
12ULTB	Introduction to Laser Technique Helena Jelínková, Jan Šulc, Michal N mec Jan Šulc Helena Jelínková (Gar.)	КZ	3	2P+1C	L	PS

18ZPRO	Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	PS
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Characteristics of	the courses of this group of Study Plan: Code=BSPFIFPTF1 Name=BS P_FIB FPTF 1st ye		
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Coulor	b's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, c	onductivity. Basics	of the relativity
theory. Electrodynamic	forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, Maxwell e	quations	
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2. Linea	ar dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of	of linear mappings	. 7. Frobenius
theorem.			
01LALZ	Linear Algebra 1, exam	ZK	2
01LAL2	Linear Algebra 2	Z,ZK	4
Outline: 1. Inverse matri	x and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian a	nd quadratic forms	s. 5. Scalar
product and orthogonal	ity. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse n	natrices. 2. Method	ts of calculation
of determinants. 3. Calc	ulation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonal	ity. Calculation of	orthogonal
complements. 6. Geome	etry – exercises and examples. 7. Adjoint operators.		
01MAN	Calculus 1	Z	4
Basic calculus (real ana	lysis, functions of one real variable, differential calculus).		
01MANZ	Calculus 1, exam	ZK	4
01MAN2	Calculus 2	Z,ZK	8
1. Continuation of different	, ential calculus: Taylor´s Polynomials, Taylor´s formula 2. Infinite series: criteria of convergence, operations on series, absolut	e and conditional c	convergence 3.
Real and complex powe	er series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of ir	tegrals: primitives.	, definite integral
(Riemann definition), te	chniques of integration and application of integrals, Generalized Riemann integral		
02MECH	Mechanics	Z	4
ntroduction to physics, p	, shysical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimen	sional equations o	f motion, motion
in central force field, for	ces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bo	dy, rotation. Funda	amentals of
continuum mechanics, e	elasticity, hydrodynamics. Sound.		
02MECHZ	Mechanics - Examination	ZK	2
The content of the subje	ct is the examination according to the plan of studies.		
00PT	Preparatory Week	Z	2
02SFP	Seminar in Plasma Physics	Z	2
First contact of students	with applications of plasma physics.		
02TER	Heat and Molecular Physics	Z,ZK	4
Thermal expansion of n	naterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyn	amic principle, ide	al and real gas,
entropy; non-chemical s	ystems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity	distribution, equip	artition theorem.
12ULTB	Introduction to Laser Technique	KZ	3
Overview of electromag	netic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase	ers; laser safety pr	ecautions. The
laser amplifier, Q-switch	ing, mode-locking.		
18ZPRO	Basics of Programming	Z	4
This course is intended	mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	mming and with th	e Python
programming language.			

# Code of the group: BSPFIFPTF2

Name of the group: BS P\_FIB FPTF 2nd year

Requirement credits in the group:

# Requirement courses in the group: In this group you have to complete at least 10 courses Credits in the group: 0

 Note on the group:
 Předmět 02TEF1 lze absolvovat až po absolvování předmětu 02MECHZ.

 Name of the course / Name of the group of courses
 Image: Course of the group of courses

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
02EXF	<b>Experimental Physics</b> Barbara Antonina Trzeciak, Jaroslav Adam, Jaroslava Óbertová, Katarína K ížková Gajdošová <b>Jaroslava Óbertová</b> Katarína K ížková Gajdošová (Gar.)	ZK	2	2P+0C	z	PS
02PRA1	<b>Experimental Laboratory 1</b> Barbara Antonina Trzeciak, Katarína K ížková Gajdošová, Libor Škoda, Jaroslav Biel ík <b>Jaroslav Biel ík</b> Jaroslav Biel ík (Gar.)	КZ	6	0+4	Z	PS
02PRA2	Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	PS
01ANB3	Calculus B 3 Miroslav Kolá , Milan Krbálek Miroslav Kolá Milan Krbálek (Gar.)	Z,ZK	8	4P+4C		PS
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá , Milan Krbálek Milan Krbálek 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
02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	PS

	Thermodynamics and Statistical Dhysics	1				
02TSFA	Thermodynamics and Statistical Physics Jaroslav Novotný, Igor Jex Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PS
02UPP	Laboratory of Plasma Diagnostics Jana Brotánková, Vojt ch Svoboda Jana Brotánková Jana Brotánková (Gar.)	КZ	3	0P+2L	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS
Characteristics of the	courses of this group of Study Plan: Code=BSPFIFPTF2 Name	e=BS P_FIB	FPTF 2nd	d year		
02EXF Exp	perimental Physics				ZK	2
The goal of this subject is to i	introduce the students the principles of physics measurements, their techniques, meth	ods and instrume	ents that are	used for su	ch measurem	nents, and the
analysis of measured data.						
02PRA1 Exp	perimental Laboratory 1				KZ	6
	y for students who intend to study some of the physical specializations of FNSPE(brar	nch Physical Engi	neering, Nu			can be also
	ed in the otherspecializations. In Experimental laboratory students learn how to prepare f					
of the measurement (acquire	of different experimental procedures and routines), willteach writing the records of me	easurement, proc	essing and	evaluation o	f results. At th	ne same time
practically extendthe knowled	dge gained in lectures on physics.		-			
02PRA2 Ext	perimental Laboratory 2				KZ	6
·	y for students who intend to study some of the physical specializations of FNSPE(brar	nch Physical Engi	neering, Nu	1		can be also
	ed in the otherspecializations. In Experimental laboratory students learn how to prepare f	, ,		•	0,	
of the measurement (acquire	of different experimental procedures and routines), willteach writing the records of me	easurement, proc	essing and	evaluation o	f results. At th	ne same time
practically extendthe knowled	dge gained in lectures on physics.					
01ANB3 Cal	lculus B 3			7	ZK	8
	series - convergence range, criteria of uniform convergence, continuity, limit, different	tiation and integra	tion of funct	1	, I	-
	2. Ordinary differential equations - equations of first order (method of integration factor	-			-	
	and equations of higher order (fundamental system, reduction of order, variation of par	-	-			-
side, Euler differential equation	on). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterio	or points, boundar	y point, isol	ated and no	n-isolated po	int, boundary
of set, completeness of space	e, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier ser	ries - expansion of	functions ir	to Fourier se	eries, trigonoi	metric Fourier
series and their convergence	e. 5. Differential calculus of functions of several variables - limit, continuity, partial and c	directional derivat	ive, gradient	t, total deriva	atives and tar	ngent plane,
Taylor series, elementary terr	ms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several e	equations.				
01ANB4 Cal	Iculus B 4			Z	,ZK	6
[1] Diferenciální po et funkcí	více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy	y ady funkce více	e prom nnýc	ch. [4] Regu	lární zobraze	ní, zám na
prom nných, nekartézské so	ustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6]	Základy teorie m	íry a obrys l	konstrukce L	ebesgueovy	míry. [7]
Integrální po et funkce více p	prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v	v ta o substituci.	Leviho a Le	besgueova	/ ta. Limita, s	spojitost a
derivace integrálu podle para	metru. [8] Integrály po k ivkách a plochách. Integrální v ty.					
12NME1 Nu	merical Methods 1			Z	I,ZK	4
There are explained the basic	c principles of numerical mathematics important for numerical solving of problems imp	ortant for physics	and techno	logy. Method	ts for solution	of tasks very
	nary differential equations, random numbers) are included in addition to the basic num		ntegrated co	omputational	lenvironment	t MATLAB is
used as a principle programm	ning language as a demonstration tool. The seminars are held in computer laboratory.					
02TEF1 The	eoretical Physics 1			Z	,ZK	4
	to analytical mechanics. The students acquire knowledge of the basic concepts of the	0 0				
to description of dynamics (N	lewton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these	methods is illustr	ated on eler	mentary exa	mples like the	e two-body
problem, the motion of a syst	tem of constrained mass points, and of a rigid body. Advanced parts of the course cov	er differential and	integral pri	nciples of m	echanics. The	e subject is
the first part of the course of	classical theoretical physics (02TEF1, 02TEF2).					
02TSFA The	ermodynamics and Statistical Physics			Z	,ZK	4
Foundation of thermodynamic	cs and statistical physics. Thermodynamic potential, the Joule Thomson effect, condition	ns of equilibrium, t	he Braun-Le	e Chatelier p	rinciple. Stati	stical entropy.
Basics of many body descrip	tionfrom a statistical point of view (classical and quasiclassical regime within the frame	e of a canonical a	ind grand-ca	anonical ens	emble, Ferm	i gas, models
of crystals and the black bod	y radiation). The Boltzmann equation is usedto discusses simple transport phenomena	a.				
02UPP Lat	poratory of Plasma Diagnostics				KZ	3
Getting familiar with basic me	easurements of diffefent processes in fusion devices. Getting through basic theory, and	d data processing	J.			
02VOAF Wa	ves, Optics and Atomic Physics			Z	,ZK	6
Wave phenomena in mechar	nics and electromagnetism: modes, standing and travelling waves, wave packets indisp	persive media. Wa	ave optics: p	olarization,	interference,	diffraction,
coherence. Geometrical optic	cs. Introduction toquantum physics: black body radiation, quantum of energy, photoeffe	ect, the Compton	effect, the d	e Broglie wa	aves,the Schr	odinger
equation, stationary states ar	nd spectra of finite systems.					
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Code of the group: BSPFIFPTF3

Name of the group: BS P\_FIB FPTF 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
02BPTF1	Bachelor Thesis 1 Tomáš Markovi Igor Jex (Gar.)	Z	5	0+5	Z	PS
02BPTF2	Bachelor Thesis 2 Ivan uran Igor Jex (Gar.)	Z	10	0+10	L,Z	PS
17ENER	<b>Energy</b> Miloš Tichý <b>Miloš Tichý</b> Miloš Tichý (Gar.)	ZK	2	2P	L	PS

02KF	Quantum Physics	Z,ZK	3	2P+1C	Z	PS
	Filip Petrásek Libor Šnobl (Gar.) Probability and Statistics					
01PRST	Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	PS
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C		PS
11BSEM	Bachelor Seminar Ladislav Kalvoda, Radka Mika Havlíková Ladislav Kalvoda Ladislav Kalvoda (Gar.)	Z	1	0P+2C	L	PS
12UPF1	Introduction to Computational Physics 1 Milan Kucha ik, Richard Liska Milan Kucha ik Milan Kucha ik (Gar.)	Z,ZK	2	1P+1C	Z	PS
02UFU	Introduction to Nuclear Fusion Jana Brotánková Jana Brotánková Jana Brotánková (Gar.)	Z,ZK	4	2+2	L	PS
12VKT	Vacuum Technology Richard Švejkar Vojt ch Petrá ek Vojt ch Petrá ek (Gar.)	KZ	4	2P+2L	Z	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 Ladislav Kalvoda, Eva Mihóková Eva Mihóková Ladislav Kalvoda (Gar.)	KZ	2	26P+0C	Z	PS
12ZFP	Principles of Plasma Physics	Z,ZK	4	3+1	L	PS
02ZJFY	Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.) Fundamentals of Nuclear Physics	Z,ZK	5	3P+2C	Z	PS
	Vladimír Wagner Vladimír Wagner (Gar.)	_,			_	
02BPTF1 Ba	e courses of this group of Study Plan: Code=BSPFIFPTF3 Name achelor Thesis 1				Z	5
The bachelor project is base regular meetings and discus	ed on a topic approved by the administrators of the programme, department and by the dessions.	ean. The student	t is guided b	by the project s	upervisor di	iring common
The bachelor project is base	achelor Thesis 2 ed on a topic approved by the administrators of the programme, department and by the de	ean. The student	t is guided b	1	Z   upervisor du	10 uring common
regular meetings and discus 17ENER Er	nergy				ZK	2
	ts with basic information about energy industry as a branch of economy. It has five co-re			•	•	
•	port and consumption. • Energy industry of the Czech Republic, including history with an a description of the main Czech energy industry components and the State Energy Str	•				
-	on, including important processes, documents and legal instruments. • Institutions of energy		-		-	
•	cally in the EU and the Czech Republic. Attention is also paid to energy modelling. • Tec	•	0, 1			
	ng a basic technical description of fossil, nuclear, water, wind and solar power plants, in ding phenomena such as greenhouse effect and climate change. Attention is also paid	-		-		-
	s of current energy industry and student presentations on the chosen topic.	to onorgy notito				
02KF Qu	uantum Physics			Z	,ZK	3
	ction, postulates of quantum mechanics, Born s statistical interpretation, expectation va	alues, Schröding	er equation	, Heisenberg	uncertainty p	orinciple,
	nentum, solution of simple systems, hydrogen atom. obability and Statistics			7	,ZK	4
	bility theory and mathematical statistics. The probability theory is build gradually beginn	ing with the clas	sical definit			Kolmogorov
	ndom variable, distribution function of random variable and characteristics of random va				is are stated	and proved.
	he basic methods of mathematical statistics such as estimation of distribution parameter	ers and hypothes	sis testing a		71/	7
The subject of this course is	quations of Mathematical Physics s solving integral equations, theory of generalized functions, classification of partial diffe (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	rential equations	s, theory of		,ZK   ormations, a	7 nd solution of
11BSEM Ba	achelor Seminar				Z	1
	ar, students familiarize themselves with the general principles of publishing and presenti	-		-		-
	econd part is designed as a practical training for the defence of the bachelor's degree p ad during the work on their projects. Each presentation is followed by a discussion on so		0			
student's performance.	····· ································					5
	troduction to Computational Physics 1				,ZK	2
	s role in physics, methodology of writing computer codes. Computer languages for phys on. Computational fluid dynamics, hydrodynamic simulations, methods for discretization c					-
	ions. Databases of scientific information, scientist evaluation, citation analysis.		5. riigii peri		oung, para	ici computing,
	troduction to Nuclear Fusion			Z	,ZK	4
-	usion in stars, priniciples of plasma confinement in magnetic field (mirrors, pinches, stell nt fusion research facilities and project (including ITER), plasma heating and control, fus					nement,
	acuum Technology				<z< td=""><td>4</td></z<>	4
-	cepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivit		-		-	
	er; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorptio		-			
NEG pumps, Ion getter pum	npsVacuum measurements: vacuum gauges of total and partial pressure; pumping spe				-	
and seals.Practical exercise	indamentals of Electrodynamics			7	ZK	2
	of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscop	ic theory. Using	special theo			
	s between two inertial systems of coordinates with appropriate invariants. Wave and Helm	•				
, i i i i i i i i i i i i i i i i i i i	nese equations are studied in homogeneous media with gradually increasing complexity					sion, and
non-isotropic. Finally, solutio	on in weakly non-homogeneous madia is presented using the method of eiconal. Individ	iuai chapters are	mustidled		evanihies.	

solids, various types of c are derived. The periodi energy bands explained	Basic to Solid State Physics tal properties of solids following the regular long distance ordering of atoms in a crystal lat rystals and their properties are defined. The model of crystalline lattice dynamics in harmonic c potential of the crystal lattice is introduced and its relation to the following model describin. The special consequences of band approach to the physical properties of solids are eluci menological basis of physical properties of crystalline solids	c approximation is ng the energetic s	described a state of elect	bonding int and basic the rons in soli	ermal properti ds by means o	es of crystals of electron
12ZFP Basic physics of high ter and propagation of elect	Principles of Plasma Physics nperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift romagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderon uction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply	notive force, self-f	ocusing and	nts, linear t parametric	-	-
	Fundamentals of Nuclear Physics ents formidable challenges both experimentally and theoretically, simply because we are de ehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of	-	-		Z,ZK	5 our classical
	ock: Compulsory elective courses er of credits of the block: 0 block: PV					
•	oup: BSSPOLVEDY oup: BS - Social Sciences					
Requirement of	redits in the group:					
	ourses in the group: In this group you have to comple	ete at least	t 1 cour	se		
Credits in the g						
Note on the gr		ses is obliga	atory.		1	
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00EKOT	Economy in Technology Jana Ková ová	Z	1	2+0		PV
00ETV	Ethics of Science and Technology Jakub Hají ek Jana Ková ová	Z	1	0+2	L	PV
00RET	Rhetoric Jana Ková ová Jana Ková ová	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová	Z	1	0+2		PV
Characteristics of	the courses of this group of Study Plan: Code=BSSPOLVEDY Nar	ne=BS - Soci	al Scien	ces		
00EKOT	Economy in Technology				Z	1
The course introduces to 00ETV	ne basics of micro- and macroeconomics. Ethics of Science and Technology				Z	1
OORET	Rhetoric				Z	1
	n the acquisition of speech and voice techniques and on the rules of correct pronounciation			-		
00UPRA	al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion Introduction to Law	n into the history o	of rhetoric ar	e an integra	Z	ourse. 1
00UPSY	Introduction to Psychology				Z	1
-	oup: BSPJAZYKYZK					
•	oup: BS P languages					
•	redits in the group:					
•	ourses in the group: In this group you have to comple	ete at least	t 2 cour	ses		
Credits in the g						
Note on the gr	•	I	,		r	,
	Name of the course / Name of the group of courses					

Code	(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	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners – Beginners - Examination Jana Ková ová, Slav na Brownová	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV

04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová (Gar.)	ZK	4	Z	PV
04XFMZK	French for Intermediate Students Examination	ZK	4	Z	PV
04XFPZK	French for Advanced Students Examination	ZK	4	Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová	ZK	3	L	PV
04XNMZK	German for Intermediate Students Examination	ZK	4	Z	PV
04XNPZK	German for Advanced Students Examination	ZK	4	Z	PV
04XRMZK	Russian for Intermediate Students Examination	ZK	4	Z	PV
04XRPZK	Russian for Advanced Students Examination	ZK	4	Z	PV
04XRZZK	Russian for Beginners Examination V ra Šlechtová	ZK	3	L	PV
04XSMZK	Spanish for Intermediate Students Examination	ZK	4	Z	PV
04XSPZK	Spanish for Advanced Students Examination	ZK	4	Z	PV
04XSZZK	Spanish for Beginners Examination	ZK	3	L	PV
	i la clocilitata				
Characteristics of t		Name=BS P la	anguages		_
1	he courses of this group of Study Plan: Code=BSPJAZYKYZK I	Name=BS P la	anguages	ZK	4
04XAMZK E	he courses of this group of Study Plan: Code=BSPJAZYKYZK I				•
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04XAMZK     E       The course content is the (20-30 min). The student i       04XAPZK     E       The course content is the in the three AP courses. T       04XCESZZK     C       The course content is the	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination	M3 courses and co edge gained in the t ring the AP3 syllab Iso oral presentation ral part covers all th	onsists of two pa three English co us and the ability on of a topic fron	rts - written (100 min urses. ZK y to apply their knowle n the student's field o ZK	) and oral 4 edge obtain f study. 4
04XAMZK     E       The course content is the     (20-30 min). The student i       (20-30 min). The student i     E       04XAPZK     E       The course content is the     in the three AP courses. T       04XCESZZK     C       The course content is the     C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination	M3 courses and co edge gained in the t ring the AP3 syllab Iso oral presentation ral part covers all th	onsists of two pa three English co us and the ability on of a topic fron	rts - written (100 min urses. ZK y to apply their knowle n the student's field o ZK	) and oral 4 edge obtain f study. 4
04XAMZK       E         The course content is the       (20-30 min). The student i         04XAPZK       E         The course content is the       in the three AP courses. T         04XCESZZK       C         The course content is the       0         04XCESZZK       C         04XCESZZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or stud completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination examination as given by the study plan. The examination	M3 courses and co edge gained in the t ring the AP3 syllab Iso oral presentation ral part covers all the acher.	onsists of two pa three English co us and the ability on of a topic fron ne topics of the (	rts - written (100 min urses. ZK y to apply their knowle in the student's field o ZK J4XCESZ1,2,3 course ZK	) and oral 4 edge obtain of study. 4 es and can 4
D4XAMZK       E         D4XAMZK       E         The course content is the       20-30 min). The student i         D4XAPZK       E         D4XAPZK       E         The course content is the       n the three AP courses. T         D4XCESZZK       C         D4XCESZZK       C         D4XCESZZK       C         D4XCESZZK       C         D4XCESMZK       C         D4XCESMZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or stud completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination	M3 courses and co edge gained in the t ring the AP3 syllab Iso oral presentation ral part covers all the acher.	onsists of two pa three English co us and the ability on of a topic fron ne topics of the (	rts - written (100 min urses. ZK y to apply their knowle in the student's field o ZK J4XCESZ1,2,3 course ZK	) and oral 4 edge obtain of study. 4 es and can 4
04XAMZK       E         The course content is the (20-30 min). The student i       04XAPZK         04XAPZK       E         The course content is the in the three AP courses. T       04XCESZZK         04XCESZZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or stud completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination examination as given by the study plan. The examination	M3 courses and co edge gained in the t ring the AP3 syllab Iso oral presentation ral part covers all the acher.	onsists of two pa three English co us and the ability on of a topic fron ne topics of the (	rts - written (100 min urses. ZK y to apply their knowle in the student's field o ZK J4XCESZ1,2,3 course ZK	) and oral 4 edge obtain f study. 4 es and can 4
04XAMZK       E         04XAMZK       E         The course content is the       (20-30 min). The student i         04XAPZK       E         The course content is the       in the three AP courses. T         04XCESZZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESPZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or stul completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination examination as given by the study plan. The examination consisting of a written and or completion of the 3 courses. Detailed information is to be obtained from the teacher.	M3 courses and co edge gained in the t ring the AP3 syllab ilso oral presentation ral part covers all th acher.	onsists of two pa three English co ous and the ability on of a topic from ne topics of the C	rts - written (100 min urses. ZK y to apply their knowle in the student's field of ZK V4XCESZ1,2,3 course ZK CESM1,2,3 courses a ZK	) and oral 4 edge obtain of study. 4 es and can 4 and can only 4
04XAMZK       E         The course content is the (20-30 min). The student i       04XAPZK         04XAPZK       E         The course content is the in the three AP courses. T       04XCESZZK         04XCESZZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         The course content is the be taken after successful       04XCESPZK         04XCESPZK       C         04XCESPZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste the examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or assful completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination examination as given by the study plan. The examination consisting of a written and or completion of the 3 courses. Detailed information is to be obtained from the teacher. Czech for Foreign Students - Advanced Examination	M3 courses and co edge gained in the t ring the AP3 syllab ilso oral presentation ral part covers all th acher.	onsists of two pa three English co ous and the ability on of a topic from ne topics of the C	rts - written (100 min urses. ZK y to apply their knowle in the student's field of ZK V4XCESZ1,2,3 course ZK CESM1,2,3 courses a ZK	) and oral 4 edge obtained of study. 4 es and can 4 and can only 4
04XAMZK       E         The course content is the (20-30 min). The student i       04XAPZK         104XAPZK       E         The course content is the in the three AP courses. T       04XCESZZK         04XCESZZK       C         04XCESZZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESMZK       C         04XCESPZK       C         04XCESPZK       C         04XCESPZK       C         04XCESPZK       C         04XCESPZK       C	he courses of this group of Study Plan: Code=BSPJAZYKYZK I English for Intermediate Students Examination examination as given by the study plan. The examination covers the AM1, AM2, and A s expected to master the AM syllabus and demonstrate the ability to apply their knowle English for Advanced Students Examination examination as given by the study plan. The student is supposed to demonstrate maste he examination consists of 2 parts - written (110 min) and oral (30 min) and includes a Czech for Foreigners – Beginners - Examination examination as given by the study plan. The examination consisting of a written and or ssful completion of all three courses. Detailed information is to be obtained from the tea Czech for Intermediate Students Examination examination as given by the study plan. The examination consisting of a written and or completion of the 3 courses. Detailed information is to be obtained from the teacher. Czech for Foreign Students - Advanced Examination examination as given by the study plan. The examination	M3 courses and co edge gained in the t ring the AP3 syllab ilso oral presentation ral part covers all th acher.	onsists of two pa three English co ous and the ability on of a topic from ne topics of the C	rts - written (100 min urses. ZK y to apply their knowle in the student's field of ZK V4XCESZ1,2,3 course ZK CESM1,2,3 courses a ZK	) and oral 4 edge obtain of study. 4 es and can 4 and can only 4

The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and is organized according to Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.         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 examination is ruled by the document Instruction for examination. Its content covers the levels FZ1 - FZ5.         04XNMZK       German for Intermediate Students Examination       ZK       4         The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment. More detailed information
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 examination is ruled by the document Instruction for examination. Its content covers the levels FZ1 - FZ5.         04XNMZK       German for Intermediate Students Examination       ZK       4         The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written
The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination is ruled by the document Instruction for examination. Its content covers the levels FZ1 - FZ5.         04XNMZK       German for Intermediate Students Examination         The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written
Instruction for examination. Its content covers the levels FZ1 - FZ5.           04XNMZK         German for Intermediate Students Examination         ZK         4           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written
04XNMZK         German for Intermediate Students Examination         ZK         4           The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment. More detailed information
is to be obtained from the teacher.
04XNPZK German for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination consisting of two parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded assessment. More detailed
information is to be obtained from the teacher.
04XRMZK Russian for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions by the teacher.
04XRPZK Russian for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RP1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by the teacher.
04XRZZK Russian for Beginners Examination ZK 3
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ1
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher.
04XSMZK Spanish for Intermediate Students Examination ZK 4
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written part, students will have obtained
non-graded assessment for course SM3. Oral examination follows the written part.
04XSPZK Spanish for Advanced Students Examination ZK 4
The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is having

consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.

	ne examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite	for admission to o	ral part is havin
passed the written test.	Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.		
04XSZZK	Spanish for Beginners Examination	ZK	3
The course content is t	e examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral e	examination only i	f he/she has
passed the written exar	nination test.		

#### Code of the group: BSPFIFPTFV Name of the group: BS P\_FIB FPTF Optional courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: Zápis předmětu 15CH2 podmína

pup: Zápis předmětu 15CH2 podmíněn získáním zápočtu z předmětu 15CH1.Předmět 02TEF2 lze absolvovat až po absolvování předmětů 02ELMA a 02TEF1.Zápis předmětu 12ZPLT je možný až po absolvování předmětu 12ULTB.

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
02AMS	Atomic and Molecular Spectroscopy Svatopluk Civiš Svatopluk Civiš Svatopluk Civiš (Gar.)	Z,ZK	4	2+2	Z	V
02DEF1	History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	L	V
01DIM1	Discrete Mathematics 1 Lubomíra Dvo áková, Edita Pelantová, Zuzana Masáková Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	Z	V
01DIM2	Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.)	Z	2	2P+0C	L	V
01DIMA3	Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
02FYS1	Physical Seminar 1 Vojt ch Svoboda (Gar.)	Z	2	0+2	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
00MAM1	Essentials of High School Course 1 David B e	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
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
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	ΚZ	4	2+2	L	V
02SMF	Seminar of Mathematical Physics Ladislav Hlavatý (Gar.)	Z	2	0+2	Z	V
02STR	Special Theory of Relativity David Be David Be (Gar.)	ZK	2	2+0	L	V
14TEM	Engineering Mechanics Ji í Kunz Ji í Kunz Ji í Kunz (Gar.)	Z,ZK	6	4	5	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
02TEF2	Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	V
02TJNS	Transport Phenomena / Nonequilibrium Systems	КZ	2	2+0	L	V
12UFN	Introduction to Photonics and Nanostructures Ivan Richter, Jan Proška, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	KZ	3	2P+1C	L	V
02UFEC	Introduction to Elementary Particle Physics Jaroslav Biel ík, Marek Matas Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z	2	2+0	Z	V
11UFPLN	Introduction to Solid State Physics Ivo Kraus, Petr Kolenko Petr Kolenko Ivo Kraus (Gar.)	ZK	2	2+0	L	V

02UKP1	Introduction to Curves and Surfaces Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	L	V
02UKP2	Introduction to Curves and Surfaces 2 Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	Z	V
12UMF	Introduction to Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.)	Z	3	2+1	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 Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		V
12ZPLT	Basic Laser Technique Laboratory	KZ	6	0+4	L	v
12ZPOP	Václav Kube ek, Josef Blažej <b>Josef Blažej</b> Václav Kube ek (Gar.) Basic Optical Laboratory	KZ	6	0+4	L	v
18ZALG	Alexandr Jan árek Alexandr Jan árek Alexandr Jan árek (Gar.) Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
16ZDOZ2	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	ZK	2	2+0	L	V
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4	2+2		v
17ZEL	Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.) Basics of Electronics	KZ	3	2+2	Z	V
12ZEL1	Martin Kropík Martin Kropík (Gar.) Basic Electronics 1 Instalau Basal Instalau Basal (Gar.)	Z,ZK	3	2+1	Z	v
12ZEL2	Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.) Basic Electronics 2 Integrating Pavel Integrating Pavel (Gar.)	Z,ZK	3	2+1	L	v
02ZM1	Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.) Foundations of Physical Measurements 1 Liber Škoda, Sciencel Paice Terror, Patr. Chalaunka, Patr. Chalaunka (Car.)	ZK	2	2P+0C	Z	v
02ZM2	Libor Škoda, Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.) Foundations of Physical Measurements 2 Petr Chalourela, Companyia (Companyia)	KZ	4	0P+4L	L	v
16MEZB	Petr Chaloupka Petr Chaloupka (Gar.) Fundamentals of Ionizing-Radiation Metrology	Z,ZK	4	2+1	Z	V
12ZMDT	Measurement and Data Processing Josef Blažej, Ivan Procházka Josef Blažej Ivan Procházka (Gar.)	Z,ZK	2	1P+1C	Z	V
Helenistic period, Archimed. / as experimental science. New 02DEF2 His Development of classical med	ystem of sciences. The relationship of man and nature. Natural sciences in ancient Or Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E vton and his work. tory of Physics 2 chanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, c ctrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its	Bruno. Copernicus	s, Kepler, ( ave approa	Galileo, Huyge	ns. The birth	n of physics 2 itism -
and relativistic physics, Planc	and structure and electromagnetism, rated and maxwell. Thermodynamics and its k and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfor of Nature and Universe of today.					•
01DIM1 Dis	crete Mathematics 1				Z	2
	ementary number theory and applications. It includes individual problem solving. crete Mathematics 2				Z	2
	currence relations. It includes individual problem solving.			· ·	<u></u>	<u> </u>
Students get to know problem	crete Mathematics 3 ns and methods of their solving from various parts of discrete mathematics. The semir	nar includes indivi	dual proble	em solving of o	one's own cl	
The seminar is devoted to de Mechanics. The problems are 04AKS Eng The course will develop the s	vsical Seminar 1 tailed study of interesting physical problems. It should help students to deeper unders a chosen, studied and presented by the students themselves, with the possibility to us glish Conversation tudent's communication skills acquired throughout their previous studies. It aims to im communication situations and will master their communication strategy. They will also p	e PC and physica	I laborator	physics prese y equipments mmunication.	Z	1 will develop
in discussions. The student w	ill be trained to express their ideas clearly and according to current English usage, an		-	speaker.		
	sentials of High School Course 1 sentials of High School Math Course 2				Z Z	1 1
Review of basics of high scho				·   ;	<u></u>	2
Basic ideas on multi-atomic n	nolecules and molecular matter, and on structure-to-physical properties relations. Met	hods of molecula	r structure	determination		
The most important concepts	neral Chemistry 1 , quantities and units used in chemistry are introduced in the course General Chemist	ry I. Their signific	ance and p	1	Z   re illustrated	3 by example
solved in exercises. 15CH2 Gei	neral Chemistry 2			7	ZK	3
The subject is the continuatio	n of the course General chemistry I. The main attention is paid to general principles g s is not restricted only to chemical processes is documented. The significance and pra	-	-	es. Using vario	us example	

18PRC1	Programming in C++ 1	Z	4
	inly the C programming language and non-object oriented features of the C++ language.		
18PRC2	Programming in C++ 2	KZ	4
02SMF	object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template Seminar of Mathematical Physics	Library.	2
	ninar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departi	- 1	
concerning their scient	ific activities that could become the topics of the student?s bachelor theses in the next year		
02STR	Special Theory of Relativity	ZK	2
	mowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals.	7 71	
Abstract: The course re	Engineering Mechanics epresents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strai	Z,ZK	6 structure parts
	cture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
02TEF2	Theoretical Physics 2	Z,ZK	4
	ations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics an		
approximation.	Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, elect	romagnetic radiat	ion in the dipole
02TJNS	Transport Phenomena / Nonequilibrium Systems	KZ	2
	the students to the field of transport phenomena. The concept of a distribution function, Boltzmann equation, and H theorem are	1	
and approaches are ap	oplied specifically to problems of plasma physics.		
12UFN	Introduction to Photonics and Nanostructures	KZ	3
	tures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanopla	ismonics; optical v	waveguides and
	nics; computer simulations; technological realization; student presentations	Z	2
02UFEC	Introduction to Elementary Particle Physics n easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject a	- 1	2
11UFPLN	Introduction to Solid State Physics	ZK	2
-	ture is to introduce the undergraduate students to the study of the solid state physics.		-
02UKP1	Introduction to Curves and Surfaces	Z	2
The goal of the lecture	is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts	for the curves are	introduced
	xplained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential particular the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature.	art of the lecture a	re the examples
calculated by students.			
	Introduction to Currian and Currianse 2	7	0
02UKP2	Introduction to Curves and Surfaces 2	Z	2
The lecture extends the	Introduction to Curves and Surfaces 2 e course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamenta n curvature. Finally, the usual concepts of Riemann geometry are introduced.	1	_
The lecture extends the	e course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamenta	1	_
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The lecture extends the the mean and Gaussia 12UMF The course is intended in a computational labor 01UP1 1.Random trial with finit 4.Conditional probabilit the calculation of mear 01UP2 1. One-dimensional commeasure theory. 4. Nur estimations. 7. Generat 12ZPLT Lasers, solid state Nd. <sup>2</sup> diode, diode pumped N 12ZPOP The practical laboratori 18ZALG This course is devoted 16ZDOZ2 Fundamentals of biolog in dosimetry. Determinat 16ZDOZ1 History, development, a absorption. Fundament 17ZEL Lectures provide basic them. Next, lectures de and triacs). Lectures de and triacs) de do	a course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental neurotature. Finally, the usual concepts of Riemann geometry are introduced. Introduction to Modern Physics to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course ratory. Introduction to Probability 1 te set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and results, value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants Introduction to Probability 2 ntinuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction rerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics for geneuorandom numbers from the selected distribution. Basic Laser Technique Laboratory YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmod VAYAC laser, Co2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, accusto-C Basic Optical Laboratory to selected algorithm design. This course intruduces selected methods for the determination of th Fundamentals of Radiation Dosimetry 2 ical effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principle ato of electronics induction semicory 1 and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionize tals of the effects of ionizing radiation. Basics of Electronics Information of electronics 1 Basics Clectronics 1 Basics of Electronics 1 Basics of Electronics 1 Fundamentals of Radiation Dosimetr	I form is introduce         Z         Z         A part of the could         Z,ZK         teometry, Bertrand         teometry, Bertrand         can value 6.Proble         Z,ZK         a of probability and         to of probability and         c. 6. Elementary m         KZ         nic, He-Ne glow d         ptic modulators.         KZ         a algorithm comp         ZK         es and methods of         Z,ZK         solutions, energy trans         KZ         solution of electrinents with more I         igital converters. I         Z,ZK         cuit analysis meth         ts inside linear cir         Z,ZK	ed, leading to 3 urse is delivered 3 d's paradox erms involving 3 d connection to iethods for point 6 ischarges, laser 6 4 lexity. 2 f measurements 4 isfer and 3 cal circuits with ayers (thyristors ectures are 3 ods for linear cuits. 3

02ZM1	Foundations of Physical Measurements 1	ZK	2
The lecture is designed	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however	, it can be attende	d by students of
other branches. The goa	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired c	lata on a PC. Stud	dents learn the
basic habits of work in a	a physics lab.		
02ZM2	Foundations of Physical Measurements 2	KZ	4
The lecture is designed	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however	, it can be attende	d by students of
other branches. The goa	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired c	lata on a PC. Stud	dents learn the
basic habits of work in a	a physics lab.		
16MEZB	Fundamentals of Ionizing-Radiation Metrology	Z,ZK	4
The course summarizes	the basic objectives and content of ionizing radiation metrology. It deals with the interpretation of radiation quantities and un	its in metrology. It	summarizes the
theoretical and experim	ental foundations of metrology, the determination of basic parameters of radiation. Lectures are supplemented with basic sur	mmary of relevant	legislation and
regulations.			
12ZMDT	Measurement and Data Processing	Z,ZK	2
Basic knowledge for the	measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeti	es, data fitting, se	paration of the
signal from the noise.			

# Code of the group: BSPJAZYKYZAP Name of the group: BS P jazyky zap Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 V ra Šlechtová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 V ra Šlechtová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V

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

 04XAM1
 English for Intermediate Students M1
 Z
 2

 The course is designed for students who have successfully completed the full secondary school English language course at least at the A2 level of the Common European Framework of Reference for Languages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of vocabulary and style typical of professional oral and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical interest. Attention is also paid to extending the knowledge of grammar issues used in EAP.

 04XAM2
 English for Intermediate Students M2
 Z
 2

 The AM2 course expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on specific grammar, functions,

and lexical items typical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided writing. If necessary, grammar revision is included.

04XAM3 English for Intermediate Students M3	Z	2
The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtec	hnical vocabulary :	and independent
understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	on and their appror	oriate Czech
equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentati	on on a chosen to	pic related to the
student's field.		
04XAP1 English for Advanced Students P1	Z	2
The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of th		
of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of terms is methamatics and physical definitions (fundamentals of terms is methamatics and physical definitions).		
grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writin		
polite request). If necessary, revision of selected grammar topics is included.	g (whiting a C v, lett	er of application,
04XAP2 English for Advanced Students P2	Z	2
The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen	1	
the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhete		-
of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguist		
The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal	writing including the	he sentence and
paragraph structure, linking, cohesion and coherence in texts.		
04XAP3 English for Advanced Students P3	Z	2
The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text.	It includes training	oral and written
communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, wr	iting an abstract) a	nd, if possible,
also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal la	nguage both in ora	al and written
communication.		
04XCESZ1 Czech for Foreigners - Beginners 1	Z	2
The course is designed for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic a	-	
acquire basic language and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communic		
communicative situations. The course covers roughly lessons 1-5 in "Chcete mluvit" esky" by H. Remediosová and E. echová. At the end of the cou	rse, the students v	vill nave reached
A1 (CEFR) approximately.	Z	2
04XCESZ2 Czech for Foreigners - Beginners 2 The language and communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension ar		
communication of frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit" esky" by H. Remediosová and E. echová. At the end		
have reached A2 (CEFR) approximately.		Students will
04XCESZ3 Czech for Foreigners - Beginners 3	Z	2
The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses		_
correct pronunciation, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts		
of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons		
04XCESM1 Czech for Foreigners - Intermediate 1	Z	2
The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending t	he student's vocat	oulary for various
social situations.		
04XCESM2 Czech for Foreigners - Intermediate 2	Z	2
The course develops the 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
in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3 Czech for Foreigners - Intermediate 3	Z	2
The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espe	cially focused on s	tylistics and
lexicology and on developing the student's writing skills.		
04XCESP1 Czech for Foreign Students - Advanced 1	Z	2
The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common E	-	
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of		-
basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies and	d Student Life. Wri	tten practice
includes communication with teachers and faculty administrators.	7	0
04XCESP2 Czech for Foreigners - Advanced 2	Z	2
This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical emphasis on individual work.	and specialist texts	s placing greater
04XCESP3 Czech for Foreigners - Advanced 3	Z	2
The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation	1	_
student's project. Writing skills necessary for professional communication are trained.	on, and, many, pro	esentation of the
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in b	1	
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to t		
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, s	•	
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, per	ersonal statement,	request, answer
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, worl	k based on these t	exts.
04XFM2 French for Intermediate Students M2	Z	2
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	e texts, features typ	ical for technical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sc	ience and technole	ogy, French
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	1	
04XFM3 French for Intermediate Students M3	Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures		
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-		
field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative v		rrench articles
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and	concience.	

04XFP1	French for Advanced Students P1	Z	2
	he objective of this three-semester course is to improve and further develop communication in the French language in both w		
	e in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gen		
	The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are r		
passé composé-impar	fait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transaction	al letters, CV, pers	sonal statement,
request, answer to an a	advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top	pics of specialization	on: mathematics,
internet, physics, chen	istry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2	French for Advanced Students P2	Z	2
With the link to P1 con	tents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication c	n given topics. Fe	atures typical of
technical and scientific	communication are stressed (passive voice, nominalization, word formation).		
04XFP3	French for Advanded Students P3	Z	2
The course is focused	, on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	n engineering envi	ronment. Special
skill - translation of sho	orter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally co	vers a technical /a	applied science
topic. It is a creative w	ork compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFZ1	French for Beginners Z1	Z	2
-	he objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in	1	1
-	rench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be abl	-	-
	e knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		
	áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions		-
	imple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia		-
04XFZ2	French for Beginners Z2	7	2
-	p with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of	the textbook: Pray	1
-	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem		
-	p of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	-	
	e work? A few expression of will, wish, order, promotion, pleasure). Confect promotion is practiced. Stress on oral contin-	iunication. Specin	c topics covered.
		7	
04XFZ3	French for Beginners Z3	Z	2
	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - I		•
	ituations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in	nformation and lo	ud as part of
	Reading covers short adapted texts of general interest first, and later popular science texts.	1	1
04XFZ4	French for Beginners Z4	Z	2
	n FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The	-	-
	extbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the le		• •
	course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	opping, weather, u	niversity in our
-	how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
04XFZ5	French for Beginners Z5	Z	2
All four skills acquired	in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The	ey present it orally	in the class. The
general contents is con	rered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.	Topics: on physics	s from lecture
notes, success of Fren	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate c		
-	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate c		
notes, success of Fren	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate c		
notes, success of Fren subjunctive clauses, g 04XNM2	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl erund, passive.	lauses, typical cor	njunctions,
notes, success of Fren subjunctive clauses, g 04XNM2 The course introduces	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate ch erund, passive. German for Intermediate Students M2	lauses, typical cor Z on between techno	njunctions, 2 logy and society,
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04XRM2 Russian for Intermediate Students M2	Z	2
The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.		ſ
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
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, p	racticing more diff	cult grammar
structures, understanding the fundamentals of technical language and training writing skills.	Z	2
04XRP2 Russian for Advanced Students P2 The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives	-	-
structures). Stress is put on independent oral and written communication.		Some Syntactic
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 paraphra	-	
courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations)		
these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral an	d written interpreta	ation). Students
develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and wi	th confidence on
technical topics.		
04XRZ1 Russian for Beginners Z1	Z	2
The 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 spea	king). Students wil	I be able to read
a short text with marked stress, understand its contents and summarize it.	7	0
04XRZ2 Russian for Beginners Z2	Z	2 Studente 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 sable to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They wi		
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		
04XRZ3 Russian for Beginners Z3	Z	2
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for tra	-	-
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will	-	-
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	h a certain percent	
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ve	rbs, differences in	verb patterns
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time)	, and practice oral	and written
communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e	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		-
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. O everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communicati		
passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite requ		es, participies,
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-sem	-	
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, neg		•
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts	or listening to then	ı.
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	r specific purpose	s 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 aca		
enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write	short articles and	summaries. The
final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
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 communica	tion. Course prere	quisites: level B2
of CEFR. 04XSP2 Spanish for Advanced Students P2	7	2
04XSP2   Spanish for Advanced Students P2 Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and s	Z	2 on independent
written communication.	ymax and locuses	on independent
04XSP3 Spanish for Advanced Students P3	Z	2
Course SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	1	1
based on what students will need in their career.		
04XSZ1 Spanish for Beginners Z1	Z	2
Course SZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funda	-	-
be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish	-	
04XSZ2 Spanish for Beginners Students Z2	Z	2
Course SZ2 is based on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and	lexis will be chose	n so as to enable
them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and o	others such as the	Czech Republic.
Realia of Spanish-speaking countries are also included.	1	
04XSZ3 Spanish for Beginners Z3	Z	2
The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of control to a structure of the second state of the second sta		-
mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperati	ve) it includes wri	ten and oral
communication on a given general topic, for which the student is trained by reading texts or listening to them.		

04XSZ4	Spanish for Beginners Z4	7	2
	course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spani	ish speaking coun	tries. mainly of
	to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of		
to written and oral com	nunication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.	•	•
04XSZ5	Spanish for Beginners Z5	Z	2
The course books are s	upplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanis	h for specific purp	oses. In its final
part, the general Spanis	sh course based on the course book will end with presentations and, finally, a written and oral examination.		

# List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology 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	Z	1
00MAM2	Essentials of High School Math Course 2 Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
	ed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the onverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar		-
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
	ences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional		1
side, Euler differential of set, completeness of	quation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficient of the equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated an of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Four vergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equation	nd non-isolated poin ier series, trigonom derivatives and tan	nt, boundary netric Fourier
01ANB4	Calculus B 4	Z,ZK	6
-	et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4]	· · ·	-
prom nných, nekai	rtézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konst kce 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.	trukce Lebesgueovy	y míry. [7]
01DIM1	Discrete Mathematics 1 The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	Z	2
01DIM2	Discrete Mathematics 2	Z	2
	The seminar is devoted to recurrence relations. It includes individual problem solving.		Z
01DIMA3	Discrete Mathematics 3	ZK	2
	problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solvin given literature.		
01LAL	Linear Algebra 1	Z	2
	inear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of theorem.	1	
01LAL2	Linear Algebra 2	Z,ZK	4
-	matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian ar	· ·	
	nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse mat 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.		
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
	iferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a		1
	wer 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		-
01MANZ	Calculus 1, exam	ZK	4
01PRST	Probability and Statistics of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	Z,ZK	
definition. The notions	s as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis test	eorems are stated a	•

01RMAF	Equations of Mathematical Physics	Z,ZK	7
The subject of this	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral to	ansformations, and	d solution of
	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01UP1	Introduction to Probability 1	Z,ZK	3
	ith finite set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and g	-	
4.Conditional prot	bability, Bayes' theorem, medical diagnosis, Simpson's paradox 5. Random variable with discrete state space, its distribution and mea		s involving
011100	the calculation of mean value 7. Probabilistic method in graph theory 8. Random algorithms, Morris algorithm and its varian		3
01UP2	Introduction to Probability 2 Il continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction o	Z,ZK	-
	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.	,	· · · · · · · · · · · · · · · · · · ·
02AMS	Atomic and Molecular Spectroscopy	Z,ZK	4
	The lecture is devoted to atomic and molecular spectroscopy.	, , ,	
02BPTF1	Bachelor Thesis 1	Z	5
The bachelor proje	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the pro	ect supervisor duri	ng common
	regular meetings and discussions.		
02BPTF2	Bachelor Thesis 2	Z	10
The bachelor proje	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the programme, department and by the dean.	ect supervisor duri	ng common
	regular meetings and discussions.		
02DEF1	History of Physics 1	Z	2
	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	-	-
Helenistic period,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I as experimental science. Newton and his work.	Huygens. The birth	or physics
02DEF2	History of Physics 2	7	2
	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach.	Lectricity and mage	
	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.	, ,	
-	hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er		
	standard model. The concept of Nature and Universe of today.	5,7	, ,
02ELMA	Electricity and Magnetism	Z,ZK	6
	bulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond	· · ·	he relativity
theory	2. Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, N	laxwell equations	
02EXF	Experimental Physics	ZK	2
The goal of this sub	ject is to introduce the students the principles of physics measurements, their techniques, methods and instruments that are used fo	r such measureme	nts, and the
	analysis of measured data.		
02FYS1	Physical Seminar 1	Z	2
	levoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic		course of
	anics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labor		
02KF	Quantum Physics	Z,ZK	3
State description	n, wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom.	nberg uncertainty	principie,
02MECH	Mechanics	7	4
	ics, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimensior	- 1	-
	eld, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bod		
	continuum mechanics, elasticity, hydrodynamics. Sound.	,	
02MECHZ	Mechanics - Examination	ZK	2
	The content of the subject is the examination according to the plan of studies.	I	
02PRA1	Experimental Laboratory 1	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	e same time
	practically extend the 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 nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati		
	practically extend the knowledge gained in lectures on physics.	on of results. At the	same ume
02SFP	Seminar in Plasma Physics	Z	2
02011	First contact of students with applications of plasma physics.	- 1	-
02SMF	Seminar of Mathematical Physics	Z	2
	he seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics department	I I	
	concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year	-	
02STR	Special Theory of Relativity	ZK	2
007554	Students extend their knowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals.		
02TEF1	Students extend their knowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals. Theoretical Physics 1	Z,ZK	4
The course is an in	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism	as well as diferent a	approaches
The course is an in to description of c	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism lynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar	as well as diferent a y examples like the	approaches e two-body
The course is an in to description of c	Theoretical Physics 1 troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism	as well as diferent a y examples like the	approaches e two-body

02TEF2	Theoretical Physics 2	Z,ZK	4
	isformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics an		
Minkowski space-ti	me. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electror	nagnetic radiation	in the dipole
	approximation.	1	1
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 thermodynam ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis	1 1 7	0,
		KZ	2
02TJNS	Transport Phenomena / Nonequilibrium Systems ces the students to the field of transport phenomena. The concept of a distribution function, Boltzmann equation, and H theorem are di	1	-
	and approaches are applied specifically to problems of plasma physics.	scusseu. The gene	rai concepts
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	1 1	1
	dy description from a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical		
	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.		
02UFEC	Introduction to Elementary Particle Physics	Z	2
The cours	se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the si	ubject are presente	ed.
02UFU	Introduction to Nuclear Fusion	Z,ZK	4
Criteria for fusio	n ignition, fusion in stars, priniciples of plasma confinement in magnetic field (mirrors, pinches, stellarators, tokamaks), principles of i	nertial plasma con	finement,
alterna	ative concepts, present fusion research facilities and project (including ITER), plasma heating and control, fusion technology, future fu	usion power plants	
02UKP1	Introduction to Curves and Surfaces	Z	2
U	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f		
Frenets formulae a	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part	of the lecture are the	ne examples
	calculated by students.	_	
02UKP2	Introduction to Curves and Surfaces 2	Z	2
I ne lecture exten	ds the course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental the mean and Gaussian curvature. Finally, the usual concepts of Riemann geometry are introduced.	form is introduced,	, leading to
02UPP	Laboratory of Plasma Diagnostics	KZ	3
020FF	Getting familiar with basic measurements of diffefent processes in fusion devices. Getting through basic theory, and data proce		5
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza		-
	metrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro		
	equation, stationary states and spectra of finite systems.	<b>3</b>	5.5
02ZJFY	Fundamentals of Nuclear Physics	Z,ZK	5
	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domai		-
	intuition reporting the helpsuicur of chiests fails up. The lecture is a basic introduction to your interacting regions of substantian		
	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic p	hysics.	
02ZM1	Foundations of Physical Measurements 1	hysics.	2
The lecture is desig	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of	ZK can be attended by	students of
The lecture is desig	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat	ZK can be attended by	students of
The lecture is design other branches. The	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.	ZK can be attended by a on a PC. Student	students of ts learn the
The lecture is design other branches. Th 02ZM2	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab. Foundations of Physical Measurements 2	ZK can be attended by a on a PC. Student KZ	ts learn the
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The lecture is design other branches. The 02ZM2 The lecture is design	Foundations of Physical Measurements 1           gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.           Foundations of Physical Measurements 2           gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic physical measurements, the methods of processing and evaluation of acquired dat basic physical measurements, the methods of processing and evaluation of acquired dat basic physical physical measurements, the methods of processing and evaluation of acquired dat basic physical	ZK can be attended by a on a PC. Student KZ can be attended by	students of ts learn the 4 students of
The lecture is design other branches. The 02ZM2 The lecture is design other branches. The	Foundations of Physical Measurements 1         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         Foundations of Physical Measurements 2         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.	ZK can be attended by a on a PC. Student KZ can be attended by a on a PC. Student	students of ts learn the 4 students of ts learn the
The lecture is design other branches. The 02ZM2 The lecture is design other branches. The 04AKS	Foundations of Physical Measurements 1         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         Foundations of Physical Measurements 2         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         English Conversation	ZK can be attended by a on a PC. Student KZ can be attended by a on a PC. Student Z	students of ts learn the 4 students of ts learn the 1
The lecture is designed other branches. The 02ZM2 The lecture is designed other branches. The 04AKS The course will de	Foundations of Physical Measurements 1         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         Foundations of Physical Measurements 2         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         English Conversation         evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication	ZK       can be attended by       a on a PC. Student       KZ       can be attended by       a on a PC. Student       Z       ation. The student to	students of ts learn the 4 students of ts learn the 1 will develop
The lecture is designed other branches. The lecture is designed other branches. The lecture is designed other branches. The other branches will deter beir vocabulary for their vocabulary for the second other branches.	Foundations of Physical Measurements 1         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         Foundations of Physical Measurements 2         gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab.         English Conversation	ZK       can be attended by       a on a PC. Student       KZ       can be attended by       a on a PC. Student       zan be attended by       a on a PC. Student       zan be attended by       a on a PC. Student       b on a PC. Student       zan be attended by       a on a PC. Student       b on a PC. Student       b on a PC. Student       b on a PC. Student	students of ts learn the 4 students of ts learn the 1 will develop
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04XAP2	English for Advanced Students P2	Z	2
The AP2 course is	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brain	nches of science. A	ccording to
the students' need	s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica	I functions (e.g., va	rious types
of descriptions, an	d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical	ly more demanding	materials.
The course extend	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writi	ng including the se	ntence and
	paragraph structure, linking, cohesion and coherence in texts.		
04XAP3	English for Advanced Students P3	Z	2
The AP3 course is	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	cludes training oral	and written
communication sk	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	an abstract) and,	if possible,
also preparing a	project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang	uage both in oral a	nd written
	communication.		
04XAPZK	English for Advanced Students Examination	ZK	4
The course conten	is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a	pply their knowled	ge obtained
in the three AP	courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a topic from	the student's field	of study.
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
	ed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the s	udent's vocabulary	/ for various
	social situations.	-	
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readir	- 1	
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.	.g	
04XCESM3	Czech for Foreigners - Intermediate 3	7	2
	evises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	ally focused on styl	
	lexicology and on developing the student's writing skills.	iny locused on styl	
		ZK	4
04XCESMZK	Czech for Intermediate Students Examination 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		-
I ne course contei		M1,2,3 courses an	d can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ		
	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. Writter	n practice
	includes communication with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	specialist texts place	cing greater
	emphasis on individual work.		
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
The course develop	os the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	and, finally, present	tation of the
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course conte	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	P1,2,3 courses an	d can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	gned for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features) a	nd they will
	anguage and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communic		
communicative situ	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course,	the students will ha	we reached
	A1 (CEFR) approximately.		
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
	communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and co	I I	
	f frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit" esky" by H. Remediosová and E. echová. At the end of		•
	have reached A2 (CEFR) approximately.		
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		
	tion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and		-
	ey also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons		
04XCESZZK		ZK	
	Czech for Foreigners – Beginners - Examination	1	4
The course conte	ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	CESZ1,2,3 course	s and can
	only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XFM1	French for Intermediate Students M1	Z	2
	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v		
	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, persor		
	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 text		
and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	nce and technology	y, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub		
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-classical sectors and the sectors of the		
	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work	-	nch articles
	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	on and cohoronco	

	French for Intermediate Students Examination	ZK	4
The content is the	examination as given by the study programme. The whole French programme is ended with an examination covering the contents of		kamination
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the we		0
04XFP1 FP advanced cour	French for Advanced Students P1 se The objective of this three-semester course is to improve and further develop communication in the French language in both writte	Z An and oral form S	2 tudents will
	licate 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	-	-
	parfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le		
request, answer to	an advert, environmental issues, success of 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		lathematics,
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	iven topics. Feature	1
	technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3	French for Advanded Students P3		2
	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in en 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
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	•	ccording to
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr	-	
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 es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
	using the 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, pe	ersonal information,	, asking and
	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gram	
04XFZ2	French for Beginners Z2		2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the iners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
-	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communi	-	
	How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3	French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravda		-
Topics, functions	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for inf	ormation and loud	as part of
04XFZ4	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. French for Beginners Z4	7	2
	i up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The co	L	<u> </u>
	r ap on r zo. Daoio iniguioto knowiedge and okino dre further developed. Oral communication and reading skills are placticed. The col	ntents is roughly co	overed with
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		
lessons 19 - 23 of tl	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp	e notes French for ling, weather, unive	Engineering
lessons 19 - 23 of the Students of FJFI.	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	e notes French for ing, weather, unive et.	Engineering ersity in our
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lessons 19 - 23 of ti Students of FJFI. 04XFZ5 All four skills acquir	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	e notes French for ing, weather, unive et. Z resent it orally in th	Engineering ersity in our 2 e class. The
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04XNP2	German for Advanced Students P2	Z	2
	os the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending		
	t introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and practice indicates and early (2) (latter of application interview application) and many application interview application.		munication,
	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi		2
04XNP3	German for Advanced Students P3 sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie	Z	
	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca		
	igineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
students are traine	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c	ourse also includes	s translation
	practice to and from German.		
04XNPZK	German for Advanced Students Examination	ZK	4
	tt is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c	• ·	
and oral, which o	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded information is to be obtained from the teacher.	assessment. More	e detalled
04XRM1	Russian for Intermediate Students M1	Z	2
	gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet i	-	
	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		-
	sic 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 timetab	ole.	
04XRM2	Russian for Intermediate Students M2	Z	2
	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	e timetable.	
04XRM3	Russian for Intermediate Students M3	Z	2
The course develo	os the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe	ever, for half of the t	ime allotted
	in the timetable.		
04XRMZK	Russian for Intermediate Students Examination	ZK	4 read in DM1
	it is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst		
04XRP1	Russian for Advanced Students P1		2
-	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course structures, practice	🔶   ticing more difficult	
	structures, understanding the fundamentals of technical language and training writing skills.	along more almoun	gramma
04XRP2	Russian for Advanced Students P2	Z	2
	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	rb aspects, specifi	c syntactic
	structures). Stress is put on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing		
courses require go	od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The		
			-
	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w	ritten interpretation	). Students
	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w echnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc	ritten interpretation	). Students
develop their subte	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w schnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics.	ritten interpretation urately and with co	). Students nfidence on
develop their subte 04XRPZK	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w echnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc	ritten interpretation urately and with co ZK	). Students nfidence on 4
develop their subte 04XRPZK The course conter	er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and w inchnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics. Russian for Advanced Students Examination	ritten interpretation urately and with co ZK Ige and skills acqui	). Students nfidence on 4 ired in RP1
develop their subte 04XRPZK The course conter	er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and w inchnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics. Russian for Advanced Students Examination at is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	ritten interpretation urately and with co ZK Ige and skills acqui	). Students nfidence on 4 ired in RP1
develop their subte 04XRPZK The course conter - RP3. Stuc 04XRZ1 The course represe	er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and w achnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics. Russian for Advanced Students Examination at is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr Russian for Beginners Z1 ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	ritten interpretation urately and with co ZK dge and skills acqui ructions by the teac Z . Thus it begins with	). Students nfidence on 4 ired in RP1 cher. 2 h mastering
develop their subte 04XRPZK The course conter - RP3. Stuc 04XRZ1 The course represe	er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and w achnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics. Russian for Advanced Students Examination at is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr Russian for Beginners Z1 ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	ritten interpretation urately and with co ZK dge and skills acqui ructions by the teac Z . Thus it begins with	). Students nfidence on 4 ired in RP1 cher. 2 h mastering
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04XSM2	Spanish for Intermediate Students M3	Z	2	
	ps the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	–		
	able to work with specialized texts on the Internet.			
0476M3		Z	2	
04XSM3	Spanish for Intermediate Students M3	I – I	2	
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi		-	
enougn to use the	enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.			
04XSMZK	Spanish for Intermediate Students Examination	ZK	4	
The course content	is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written particular particular and oral; to be eligible for the written particular particular and the study plan.	art, students will ha	ve obtained	
	non-graded assessment for course SM3.Oral examination follows the written part.			
04XSP1	Spanish for Advanced Students P1	Z	2	
Course concentrate	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.	Course prerequisit	es: level B2	
	of CEFR.			
04XSP2	Spanish for Advanced Students P2	Z	2	
	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta	x and focuses on ir		
	written communication.			
04XSP3	Spanish for Advanced Students P3	7	2	
	I	. – .		
Course SP3 is the i	inal part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	ised on written con	imunication	
	based on what students will need in their career.			
04XSPZK	Spanish for Advanced Students Examination	ZK	4	
The course content	is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a		art is having	
	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	e student.		
04XSZ1	Spanish for Beginners Z1	Z	2	
	irst stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	tal grammar structu	ires and will	
	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	-		
04XSZ2	Spanish for Beginners Students Z2	7	2	
	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis		_	
them to understand	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other	s such as the Czec	in Republic.	
	Realia of Spanish-speaking countries are also included.		-	
04XSZ3	Spanish for Beginners Z3	Z	2	
	d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the		-	
mainly of Spain. I	t pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	). It includes writter	n and oral	
	communication on a given general topic, for which the student is trained by reading texts or listening to them.			
04XSZ4	Spanish for Beginners Z4	Z	2	
The course is base	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countries	s, mainly of	
	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the		-	
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listeni	-	• •	
04XSZ5	Spanish for Beginners Z5	7	2	
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for	. – .	_	
The course books	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina		5. 111 ILS 1111di	
0.00771/		· · · · · · · · · · · · · · · · · · ·		
04XSZZK	Spanish for Beginners Examination	ZK	3	
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if he	e/she has	
	passed the written examination test.			
11BSEM	Bachelor Seminar	Z	1	
In the first part of th	e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	irements for bache	lor's degree	
projects at the facu	Ity. The second part is designed as a practical training for the defence of the bachelor's degree project. The students give oral preser	ntations of the curre	ent state of	
the research res	ults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the p	ossibilities of impro	oving the	
	student's performance.			
11UFPLN	Introduction to Solid State Physics	ZK	2	
	The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.		-	
11ZFPL	Basic to Solid State Physics	KZ	2	
		I I		
	amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding s of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basi	-		
			-	
-	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in			
energy bands ex	plained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s	systematically intro	duce and	
	interpret a broad phenomenological basis of physical properties of crystalline solids			
12MOF	Molecular Physics	ZK	2	
Basic i	deas on multi-atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure	ure determination.		
12NME1	Numerical Methods 1	Z,ZK	4	
	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me	thods for solution o	f tasks very	
	cists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat		-	
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.			
12UFN	Introduction to Photonics and Nanostructures	KZ	3	
	ructures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanoplasm	I I	-	
	fibers; integrated photonics; computer simulations; technological realization; student presentations	.c. noo, opnoar wave	guiaco anu	
		V7	2	
12ULTB	Introduction to Laser Technique	KZ	3 utions The	
Overview of electro	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers;	laser satety preca	utions. The	
	laser amplifier, Q-switching, mode-locking.			
12UMF	Introduction to Modern Physics	Z	3	
The course is inten	ded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A	part of the course	is delivered	
	in a computational laboratory.			

12UPF1	Introduction to Computational Physics 1	Z,ZK	2
Numerical simulation	on and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program	libraries for physic	s. Computer
tools for scientific vi	isualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance	computing, paralle	I computing,
	software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.		
12VKT	Vacuum Technology	KZ	4
	basic concepts and relations; diffusion, flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surfa	1	-
-	olid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their pro	-	
	m, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorp	-	-
NEG pumps, ion g	getter pumpsVacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Mater	nais and vacuum c	omponents
	and seals.Practical exercises.		-
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		
circuits includ	e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	ects inside linear c	vircuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follow	, ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	emes of logical cir	cuits field.
12ZELD	Fundamentals of Electrodynamics	Z,ZK	2
		· ·	1
	derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory of re	-	
	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By expan	•	
	of solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with abs		
	ic. Finally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by	appropriate exam	ples.
12ZFP	Principles of Plasma Physics	Z,ZK	4
Basic physics of high	, h temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, line	ear theory of waves	s in plasmas
and propagation of	electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and parameters	etric instabilities ar	e explained.
lt	comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas ar	re introduced.	-
12ZMDT	Measurement and Data Processing	Z.ZK	2
	6	1 '	
Basic knowledge	for 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.	1	1
12ZPLT	Basic Laser Technique Laboratory	KZ	6
Lasers, solid state	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic,	, He-Ne glow disch	arges, laser
diode, diod	de pumped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, aco	usto-optic modulate	ors.
12ZPOP	Basic Optical Laboratory	KZ	6
-	he practical laboratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must b	1	Ū
			-
14TEM	Engineering Mechanics	Z,ZK	6
Abstract: The cour	se represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strain a	analysis of real stru	icture parts
			Joidi o pui to
	(elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.		
15CH1	(elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application. General Chemistry 1	Z	3
			3
	General Chemistry 1 t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u		3
The most importan	General Chemistry 1 t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u solved in exercises.	use are illustrated b	3 by examples
The most importan	General Chemistry 1 t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u solved in exercises. General Chemistry 2	Z,ZK	3 by examples 3
The most importan 15CH2 The subject is the o	General Chemistry 1 t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u solved in exercises. General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using	Z,ZK various examples,	3 by examples 3 the fact that
The most importan 15CH2 The subject is the o	General Chemistry 1 t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical us solved in exercises. General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using a principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	Z,ZK various examples,	3 by examples 3 the fact that
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18ZALG	Basics of Algorithmization	Z,ZK	4	
This course is	This course is devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the algorithm complexity.			
18ZPRO	Basics of Programming	Z	4	
This course is i	ntended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	nming and with the	e Python	
	programming language.			
TV-1	Physical Education	Z	1	
TV-2	Physical Education	Z	1	
TV-3	Physical education	Z	1	
TV-4	Physical education	Z	1	

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