## Study plan

# Name of study plan: jaderné inženýrství - Radioaktivita v životním prost edí

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: BSPJIRZP1 Name of the group: BS P\_JIB RŽP 1st year Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 16 courses Credits in the group: 0

Note on the group: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) **History of Physics 1** 7 02DEE1 2 2+07 PS Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.) **Electricity and Magnetism** 02ELMA Z,ZK 6 4+2 L PS Iskender Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.) Linear Algebra 1 01LAL Ζ 2 2P+2C Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra PS Dvo áková (Gar.) Linear Algebra 1, exam 01LALZ ΖK 2 0P+0C PS Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) Linear Algebra 2 01LAL2 Z.ZK 4 2P+2C PS Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) Calculus 1 01MAN 7 4+4 4 PS Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.) Calculus 1, exam 01MANZ ΖK 4 0P+0C PS Miroslav Kolá. Pavel Strachota. Edita Pelantová Pavel Strachota Pavel Strachota (Gar.) Calculus 2 01MAN2 Z.ZK 8 4P+4C PS Severin Pošta, Miroslav Kolá, Edita Pelantová Miroslav Kolá Severin Pošta (Gar.) **Mechanics** 7 02MECH 4 4+2 7 PS Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.) **Mechanics - Examination** Iskender Yalcinkaya, Goce Chadzitaskos, David B e , Filip Petrásek, Stanislav 02MECHZ ΖK 2 Ζ -PS Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David B e (Gar.) **Preparatory Week** 00PT Ζ 2 Ζ týden PS Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.) **Heat and Molecular Physics** 02TER Z,ZK Δ 2+2 L PS Filip Petrásek Petr Novotný Petr Jizba (Gar.) **Introductory Nuclear and Radiation Physics 1** 16UJRF1 Z,ZK 4 2P+2C L PS Ladislav Musílek Ladislav Musílek Ladislav Musílek (Gar.) **Foundations of Physical Measurements 1** 02ZM1 2 2P+0C Ζ ΖK PS Solangel Rojas Torres, Libor Škoda, Petr Chaloupka Petr Chaloupka (Gar.)

02ZM2	Foundations of Physical Measurements 2 Petr Chaloupka Petr Chaloupka (Gar.)	КZ	4	0P+4L	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
Characteristics of	the courses of this group of Study Plan: Code=BSPJIRZP1 Name	=BS P_JIB R	ŽP 1st y	ear		
	History of Physics 1				Z	2
	the system of sciences. The relationship of man and nature. Natural sciences in ancient Or					-
	ned. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano I	Bruno. Copernicus	s, Kepler, G	alileo, Huyge	ens. The birth	of physics
as experimental science.				7	,ZK	6
	Electricity and Magnetism o's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectri	cs Electric curren	nt and circuit		·	6 the relativity
<b>3</b> ·	prces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. E					ule relativity
, ,					Z	2
		5. Linear mappin	gs. 6. Matric	es of linear	mappings. 7	
theorem.						
01LALZ	Linear Algebra 1, exam				ZK	2
01LAL2	space. 2. Linear Algebra 1, exam       ZK       2         Linear Algebra 2       Z,ZK       4         Inverse matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and quadratic forms. 5. Scalar nd orthogonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matrices. 2. Methods of calculation and eigenvectors. 4. Hermitian and quadratic forms. 5. Scalar product and orthogonality. Calculation of orthogonal ents. 6. Geometry – exercises and examples. 7. Adjoint operators.         Z       Calculus 1       Z       4         culus (real analysis, functions of one real variable, differential calculus).       Z       4         Z       Calculus 1, exam       ZK       4         2       Calculus 1, exam       ZK       4         2       Calculus 1, exam       ZK       4         2       Calculus 2       Z,ZK       8         uation of differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute and conditional convergence complex power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integrals: primitives, definite interesties of definition), techniques of integration and application of integrals, Generalized Riemann integral	4				
		5. Scalar product	and orthog	onality. Calc	ulation of ort	hogonal
					Z	4
`					71/	4
						-
				1	, I	Ũ
		-				-
			5. 4. THEOLY	or integrats.	printitives, u	ennite integrai
· · · · · · · · · · · · · · · · · · ·	Mechanics				Z	4
	hysical quantities and units. Particle kinematics, basic types of motion and theirsuperpositi	on. Particle dynan	nics, one-di	ا mensional e	- 1	-
	es innoninertial reference frames. Mechanics of system of free particles, two-body probler	-			-	
continuum mechanics, e	lasticity, 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
02TER	Heat and Molecular Physics			Z	"ZK	4
	aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe				-	-
	stems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials	; kinetic theory: M	axwell's vel	<u> </u>		
	Introductory Nuclear and Radiation Physics 1				.,ZK	4
	to provide students with basic knowledge about atomic nucleus and radiation physics, whit					
	nent of opinions on micro-wave and radiation physics, basic characteristics of the atom an portant nuclear models. General characteristics of the interaction of ionizing radiation with					
	ims through the matter, radiation effects in matter.	and matter, intera		ia, bota, gan		lion radiation,
	Foundations of Physical Measurements 1				ZK	2
	or students of physical specializations (Experimental particle physics, Physical engineerin	g, Nuclear engine	ering), how	1		
other branches. The goa	l of the lecture is to introduce the basics of physical measurements, the methods of proces	ssing and evaluati	ion of acquii	red data on a	a PC. Studer	ts learn the
basic habits of work in a	physics lab.					
02ZM2	Foundations of Physical Measurements 2				KZ	4
-	or students of physical specializations (Experimental particle physics, Physical engineerin					-
-	I of the lecture is to introduce the basics of physical measurements, the methods of proces	ssing and evaluati	ion of acquii	red data on a	a PC. Studer	ts learn the
basic habits of work in a					_	
	Basics of Programming	with the heri	oonto ka a		Z	4 Duthon
programming language.	nainly for students with little or no experience in programming. It familiarizes the students	with the pasic cor	icepis in pro	gramming a	ina with the F	ython
Programming language.						
<u> </u>						
	pup: BSPJIRZP2					
<b>NI 6</b> / 1	oup PCD IID DŽD 2nd voor					

Name of the group: BS P\_JIB RŽP 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 12 courses Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
01ANB3	Calculus B 3 Miroslav Kolá , Milan Krbálek <b>Miroslav Kolá</b> 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 Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	PS
16PNZ	Problems of Non-ionizing Radiation Kamil Augsten Kamil Augsten Lenka Thinová (Gar.)	KZ	2	2P+0C	Z	PS
16PSE	Topical Dosimetry Seminar Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	2	0P+2C		PS
18PMTL	Programming in MATLAB Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	Z	PS
16ZIVB	Introduction to Ecology Hana Pr šová Hana Pr šová (Gar.)	KZ	2	2+0	Z	PS
16UJRF2	Introductory Nuclear and Radiation Physics 2 Ladislav Musilek Ladislav Musilek Ladislav Musilek (Gar.)	Z,ZK	4	2P+2C	Z	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS
16ZDOZ1	Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2+2		PS
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2P+2C	L	PS
16ZRIZ	Health risks of ionizing radiation Marie Davídková Marie Davídková (Gar.)	ZK	2	2P+0C	L	PS
Characteristics of th	ne courses of this group of Study Plan: Code=BSPJIRZP2 Name	=BSPJIBR	ŽP 2nd	vear		1
1	calculus B 3				,ZK	8
side, Euler differential equa of set, completeness of spa series and their convergen	n) and equations of higher order (fundamental system, reduction of order, variation of pa ation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior ace, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier se ce. 5. Differential calculus of functions of several variables - limit, continuity, partial and erms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several of the several section.	or points, bounda ries - expansion o directional derivat	ry point, iso f functions	plated and nor into Fourier se	n-isolated peries, trigono	oint, boundary
01ANB4 C	alculus B 4			Z	,ZK	6
[1] Diferenciální po et funk	cí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorov	y ady funkce více	e prom nn	ých. [4] Regul	ární zobrazo	ení, zám na
prom nných, nekartézské	soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6]	] Základy teorie m	iíry a obrys	konstrukce L	ebesgueov	/ míry. [7]
Integrální po et funkce víc	e prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta,	v ta o substituci.	Leviho a L	ebesgueova v	ta. Limita,	spojitost a
	arametru. [8] Integrály po k ivkách a plochách. Integrální v ty.					
	lumerical Methods 1				,ZK	4
•	sic principles of numerical mathematics important for numerical solving of problems imp					
, .	dinary differential equations, random numbers) are included in addition to the basic num		ntegrated of	computational	environmei	nt MAILAB IS
	mming language as a demonstration tool. The seminars are held in computer laboratory	<u>.</u>				
	roblems of Non-ionizing Radiation			1	KZ	2
	pgical effects of non-ionizing radiation and its use in physical praxis. Information about p	rinciples, biologica	al effects a	nd methods u	sed in fields	of magnetic
	as applied in various types of technical or medical equipment are given as well.					
	opical Dosimetry Seminar				Z	2
	to motivate the student's interest in the field of dosimetry and provide basic information a			•		
	ures are given by students and absolvents of DDAIR, who are currently employed at the					
	ital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will foc I also learn more about Bachelor degree thesis topics and thus will learn more about the		-		-	
		en possible specie		-		
-	rogramming in MATLAB ment as efficient tool for computation in complex arrays and symbolic variables, namely	for linear algebra	a, mathema	1	KZ   statistics, alg	4 orithmization
and geometric representat	ion of results.					
	ntroduction to Ecology asic of the ecologic principles, terms and ideas. It covers overview information regarding	to particular com	ponents of		KZ	2 uate economic
indicators and sustainable	development.					
	ntroductory Nuclear and Radiation Physics 2 provide students with basic knowledge about atomic nucleus and radiation physics, whi	ich is followod by	othor spaci		,ZK	4 et summarizos
thematic areas: general pro	operties of radioactive decay, alpha decay, proton radioactivity, beta decay, gamma emis	-	-		-	
	Im elements, thermonuclear reaction.				71	6
	Vaves, Optics and Atomic Physics anics and electromagnetism: modes, standing and travelling waves, wave packets indis	nersive media M4	ave ontice:	1	,ZK	6 diffraction
	tanics and electromagnetism. modes, standing and travelling waves, wave packets indis	-	-	-		
	and spectra of finite systems.		511001, 1118	So Drogile Wa		Janiyoi
	undamentals of Radiation Dosimetry 1			7	,ZK	4
1	objectives of dosimetry. Quantities and units used for description of sources, fields, inte	ractions of ionizin	a radiation			
	of the effects of ionizing radiation.		3 144141011	, .om_auono, t	and gy trails	
	undamentals of Radiation Dosimetry 2			7	,ZK	4
1	effects of ionizing radiation. Quantities and units used in radiation protection. Recommen	idations of ICRP a	nd ICRLI P		·	-
-	n of activity and neutron source emission. Measurements of absorbed dose and exposu			ו חומ בפולוסוייו		neasurement
	· · · · · · · · · · · · · · · · · · ·				71/	0
	lealth risks of ionizing radiation		duction to t	1	ZK	2
	acquaint students with the radiobiological basics of radiation protection. The basis of the			-		-
(IR) at the molecular, cellu	lar and tissue levels, an overview of deterministic and stochastic effects of ionizing radia	auon, nealth harm	, risk and li	is evaluation,	Dasics of ep	naemioiogy.

### Code of the group: BSPJIRZP3 Name of the group: BS P\_JIB RŽP 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

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
17BPJI1	Bachelor Thesis 1 Dušan Kobylka, Jan Rataj Jan Rataj (Gar.)	Z	5	5ZP		PS
17BPJI2	Bachelor Thesis 2 Dušan Kobylka, Jan Rataj Jan Rataj (Gar.)	Z	10	10ZP		PS
16DETE	Detectors of Ionizing Radiation Petr Pr ša Petr Pr ša Petr Pr ša (Gar.)	ZK	4	4+0	6	PS
16EXK	Excursion Lenka Thinová	Z	2	1t	2	PS
17JARE	Nuclear Reactors Tomáš Bílý Tomáš Bílý Tomáš Bílý (Gar.)	ZK	2	2	L	PS
16OSE	Professional Seminar Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	3	0P+4C		PS
16PADR	Practical Analysis of Data and Risks Kate ina Pila ová, Václav Št pán Václav Št pán (Gar.)	KZ	4	1P+3C	Z	PS
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	PS
16UAZB	Principles of Ionizing-Radiation Applications Ladislav Musílek Kamil Augsten Ladislav Musílek (Gar.)	ZK	2	2+0	Z	PS
16RAON	Radiation Protection Tomáš Trojek, Darina Trojková, Miroslav Hýža, Dana Drábová, Ji í H Ika, Ladislav Tomášek, Ji í Martin ík <b>Ji í Martin ík</b> Tomáš Trojek (Gar.)	ZK	4	4+0	Z	PS
16RAZP	Radioactivity in the Environment Lenka Thinová Lenka Thinová (Gar.)	Z,ZK	3	2P+1C	2	PS
12UPF1	Introduction to Computational Physics 1 Milan Kucha ík, Richard Liska Milan Kucha ík Milan Kucha ík (Gar.)	Z,ZK	2	1P+1C	Z	PS
12UPF2	Introduction to Computational Physics 2 Milan Kucha ík, Richard Liska Milan Kucha ík Milan Kucha ík (Gar.)	Z,ZK	2	1P+1C	L	PS
16ZPRD	Elementary Labs Petr Pr ša Petr Pr ša Ji í Martin ík (Gar.)	KZ	3	3L		PS
Characteristics of	the courses of this group of Study Plan: Code=BSPJIRZP3 Nan	ne=BS P JIB R	ŽP 3rd v	ear		
17BPJI1 Student on the basis of	Bachelor Thesis 1 theses assignment and under leading of a supervisor individually processes given topic				Z / self-reliant wo	5 rk on give
	nuously check by a supervisor.					
17BPJI2 Student on the basis of	Bachelor Thesis 2 theses assignment and under leading of a supervisor individually processes given topic	during 2 semesters	. The subjec	t is given by	Z   / self-reliant wo	10 rk on give
	nuously check by a supervisor.	-				č
16DETE Gas filled detectors (ion	Detectors of Ionizing Radiation ization chambers, proportional counters, Geiger-Müller counters, corona counters), organ	nic and inorganic scir	ntillation det	ectors Che		4 s evaluat
,	er, parameters of PMT, semiconductor detectors, cryogenic detectors.	no and morganic SCI				, evalua

Student on the basis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject	is given by self-reliar	nt work on given
topic. The work is continuously check by a supervisor.		
17BPJI2 Bachelor Thesis 2	Z	10
Student on the basis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject	is given by self-reliar	nt work on given
topic. The work is continuously check by a supervisor.		
16DETE Detectors of Ionizing Radiation	ZK	4
Gas filled detectors (ionization chambers, proportional counters, Geiger-Müller counters, corona counters), organic and inorganic scintillation dete	ctors, Cherenkov cou	nters, evaluation
of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors.		
16EXK Excursion	Z	2
Excursion in research institutes, laboratories and cooperative universities (CERN, JINR, TU Dresden,) and modern research trends usig ionizin	g radiation.	
17JARE Nuclear Reactors	ZK	2
Introduction. World power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safet	systems, containme	nt. Classification
of reactors into IV generations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspective	s. Pressurized water	reactors (PWR).
Western-type PWR (Westinghouse, KWU, Framatom). VVER-type reactors , Temelin nuclear power plant. Boiling water reactors. Heavy water re		
high-temperature gas cooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: Gl		es. Evaluation
and selection of proposed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in long-term		
16OSE Professional Seminar	Z	3
In the first part of the seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the form		•
projects at the faculty. The second part is designed as a practical training for the defence of the bachelor's degree project. The students give oral		
the research results achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on		
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ra	diation, and radiatior	protection with
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ra focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries	diation, and radiatior	protection with
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ra focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.	diation, and radiatior to help the students	protection with to accommodate
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing rafocus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and trieslearned knowledge form their studies in complex frame for application in practice.16PADRPractical Analysis of Data and Risks	diation, and radiatior to help the students	protection with to accommodate
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, use	diation, and radiatior to help the students KZ eful for data and risk	protection with to accommodate 4 analysis. The
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, us main content of the course is practical application of theoretical procedures, especially data analysis using available software solution. Students	diation, and radiatior to help the students KZ eful for data and risk	protection with to accommodate 4 analysis. The
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, us main content of the course is practical application of theoretical procedures, especially data analysis using available software solution. Students analysis and evaluation of data and risks.	diation, and radiatior to help the students KZ eful for data and risk vill learn to perform o	a protection with to accommodate 4 analysis. The comprehensive
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, us main content of the course is practical application of theoretical procedures, especially data analysis using available software solution. Students analysis and evaluation of data and risks.         01PRST       Probability and Statistics	diation, and radiation to help the students KZ eful for data and risk vill learn to perform of Z,ZK	a protection with to accommodate 4 analysis. The comprehensive 4
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, us main content of the course is practical application of theoretical procedures, especially data analysis using available software solution. Students analysis and evaluation of data and risks.         01PRST       Probability and Statistics         It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition	diation, and radiation to help the students KZ eful for data and risk vill learn to perform of Z,ZK n and continuing till t	a protection with to accommodate 4 analysis. The comprehensive 4 he Kolmogorov
student's performance. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing ratio focus on bachelor state final exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries learned knowledge form their studies in complex frame for application in practice.         16PADR       Practical Analysis of Data and Risks         The aim of the course is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, us main content of the course is practical application of theoretical procedures, especially data analysis using available software solution. Students analysis and evaluation of data and risks.         01PRST       Probability and Statistics	diation, and radiation to help the students KZ eful for data and risk vill learn to perform of Z,ZK n and continuing till t	a protection with to accommodate 4 analysis. The comprehensive 4 he Kolmogorov

16UAZB Principles of Ionizing-Radiation Applications	ZK	2
Historical outline of applications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radio	nuclide measuren	nents, use of
penetration and scattering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use	of ionizing radiati	on.
16RAON Radiation Protection	ZK	4
The course covers the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The	ne course is accer	pted as training,
which allows obtaining special competence in radiation protection and learner receives appropriate certificate.		
16RAZP Radioactivity in the Environment	Z,ZK	3
The course provides a comprehensive view of the source of ionizing radiation occurring in the environment.	·	
12UPF1 Introduction to Computational Physics 1	Z,ZK	2
Numerical simulation and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and progra	am libraries for ph	ysics. Computer
tools for scientific visualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performan	ice computing, pa	rallel computing,
software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.		
12UPF2 Introduction to Computational Physics 2	Z,ZK	2
Nonlinear models, complex systems, chaotic systems, fractals and their applications in physics. Artificial intelligence methods: neural networks, mac	hine learning, ger	etic algorithms,
expert systems and their applications in physics. Quantum computing. Virtual reality.		
16ZPRD Elementary Labs	KZ	3
The aim of the course is to acquaint students with applications of ionizing radiation detectors and also with the principles of detection and spectrome	try of ionizing rac	liation. Ionizing
radiation detectors in this course is considered as a device which produces an evaluable signal at the time of interaction (unlike dosimeters). The air	n of the course is	to understand to
basic principles of detection and calibration of common instruments in the field of ionizing radiation measurement.		

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

Code of the group: BSSPOLVEDY Name of the group: BS - Social Sciences

Dequirement aredite in the group

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 0

#### Note on the group:

Only one of these courses is obligatory.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00EKOT	Economy in Technology Jana Ková ová	Z	1	2+0		PV
00ETV	Ethics of Science and Technology Jakub Hají ek <b>Jana Ková ová</b>	Z	1	0+2	L	PV
00RET	Rhetoric Jana Ková ová <b>Jana Ková ová</b>	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová	Z	1	0+2		PV

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

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

Code of the group: BSPJAZYKYZK

Name of the group: BS P languages

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
04XAMZK	Tutors, authors and guarantors (gar.)         English for Intermediate Students Examination         Michael Banaă	ZK	4		Z	PV
04XAPZK	Michal Beneš English for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XCESZZK	<b>Czech for Foreigners – Beginners - Examination</b> Jana Ková ová, Slav na Brownová	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Michal Beneš Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Michal Beneš	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Michal Beneš	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XAMZK En	e courses of this group of Study Plan: Code=BSPJAZYKYZK N glish for Intermediate Students Examination amination as given by the study plan. The examination covers the AM1, AM2, and AM				ZK	4 and oral
04XAPZK En The course content is the ex	expected to master the AM syllabus and demonstrate the ability to apply their knowled glish for Advanced Students Examination amination as given by the study plan. The student is supposed to demonstrate masteri examination consists of 2 parts - written (110 min) and oral (30 min) and includes also and the study plan.	ing the AP3 syllabu	us and the a	bility to app		
The course content is the ex	ech for Foreigners – Beginners - Examination amination as given by the study plan. The examination consisting of a written and ora ul completion of all three courses. Detailed information is to be obtained from the teac		e topics of t	he 04XCES	ZK   Z1,2,3 courses	4 and can
The course content is the ex	ech for Intermediate Students Examination amination as given by the study plan. The examination consisting of a written and ora mpletion of the 3 courses. Detailed information is to be obtained from the teacher.	al part covers all th	e topics of t	1	ZK 2,3 courses an	4 d can only
The course content is the ex	ech for Foreign Students - Advanced Examination amination as given by the study plan. The examination consisting of a written and ora mpletion of the 3 courses. Detailed information is to be obtained from the teacher.	al part covers all th	e topics of t		ZK 2,3 courses and	4 d can only
The content is the examinati	on as given by the study programme. The whole French programme is ended with an I part and is organized according to Examination Instructions, a document available o		ring the con	1	ZK 1-FM3. The exa	4 amination
04XFPZK Free French program i	ench for Advanced Students Examination s ended with an examination covering the contents of FP1-FP3. The examination con- document available on the web. Assessment of the presentation is included into the ex	nsists of a written a		1	ZK sorganized ac	4 cording to
04XFZZK Fre	ench for Beginners Examination		-		ZK	3
Instruction for examination. I	on as given by the study plan. The course is terminated with an examination consistin ts content covers the levels FZ1 - FZ5.	ig of oral and writt	en part. The			
The course content is the ex-	rman for Intermediate Students Examination amination as given by the study plan. The whole German for Intermediate Students Co urses NM1 - NM3. The oral part follows after passing the written part successfully and	-	-	ination con		
is to be obtained from the terest of teres	acher. Irman for Advanced Students Examination				ZK	4
The course content is the ex	amination as given by the study plan. The whole German for Advanced Students Cou		-	nation cons	sting of two pa	irts - written
	UISES INF LE INFO, THE UIALUATI DOUDWS AREL DASSING THE WITTER DATA STREES THIN ANT		uni			
1	urses NP1 - NP3. The oral part follows after passing the written part successfully and from the teacher. ssian for Intermediate Students Examination			1	ZK	4

04XRPZK Russian for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	vledge and skills a	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 instruct	ions by the teache	ər.
04XRZZK Russian for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	vledge and skills a	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 instruction	ons by the teache	⊧r.
04XSMZK Spanish for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written	en part, students w	vill 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 o	ral part is having
passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.		
04XSZZK Spanish for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral	examination only i	if he/she has
passed the written examination test.		

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

Code of the group: BSPJIRZPV Name of the group: BS P\_JIB RŽP Optional courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) Safe operation of nuclear facilities 17BPROV K7 2 2P v Lenka Frýbortová, ubomír Sklenka Lenka Frýbortová (Gar.) **History of Physics 2** 02DEF2 Ζ 2 L 2+0v Igor Jex Miroslav Myška Igor Jex (Gar.) **Exact Methods in Research of Historic Monuments** Ζ 16EPAM ΖK 2 2+0 v Ladislav Musílek Ladislav Musílek Ladislav Musílek (Gar.) **Experimental Physics** 02EXF Barbara Antonina Trzeciak, Jaroslav Adam, Jaroslava Óbertová, Katarína K ížková Gajdošová **Jaroslava Óbertová** Katarína K ížková Gajdošová (Gar.) 2 2P+0C Ζ ΖK v **Experimental Neutron Physics** 17ENEF ΚZ 3 1P+2L L V Jan Rataj Jan Rataj (Gar.) **English Conversation** 04AKS Ζ 1 0+2 L V Jana Ková ová Jana Ková ová (Gar.) **Essentials of High School Course 1** 00MAM1 Ζ 1 0+1v David B.e. **Essentials of High School Math Course 2** 00MAM2 Ζ 0+1 1 V Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.) **Numerical Methods 2** 01NME2 ΚZ 2 L 2+0V Michal Beneš Michal Beneš (Gar.) General Chemistry 1 7 7 15CH1 3 2+1 v Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) **General Chemistry 2** 15CH2 Z,ZK 3 L 2+1v Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) Computer Algebra Systems Ζ 12PAS 2 1P+1C Ζ v Milan Ši or Milan Ši or Milan Ši or (Gar.) Programming in C++ 1 18PRC1 Ζ 4 2+2 Ζ V Vladimír Jarý, Miroslav Virius Miroslav Virius Miroslav Virius (Gar.) Programming in C++ 2 18PRC2 ΚZ 4 L 2+2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav v Virius (Gar.) **Equations of Mathematical Physics** 01RMAF Z,ZK 7 4P+2C v Václav Klika Václav Klika Václav Klika (Gar.) Statistical Methods with Applications 01STME ΖK 2 2P+0C v Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.) TV-1 7 Ζ 1 **Physical Education** v TV-2 Ζ 1 L **Physical Education** V TV-3 Ζ Ζ 1 0+2 v **Physical education** Ζ TV-4 1 0+2L **Physical education** v

02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	V
02TSFA	Thermodynamics and Statistical Physics           Igor Jex, Jaroslav Novotný Antonín Hoskovec         Igor Jex (Gar.)	Z,ZK	4	2+2	L	V
14TED	Creating Electronic Documents Aleš Materna Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
17UING	Introduction to Engineering Jan Frýbort, Petr Haušild, Radek Mušálek Jan Frýbort (Gar.)	KZ	3	2P+1C	Z	V
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	V
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	V
16UVJZ	Introduction to Decommissioning of Nuclear Facilities Lenka Thinová, Tomáš Trojek Lenka Thinová Lenka Thinová (Gar.)	Z,ZK	4	3P+1C	L	v
18ZALG	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
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
16ZEDB	Basics of Experimantal Data Processing Kate ina Pila ová Kate ina Pila ová Kate ina Pila ová (Gar.)	ZK	2	2+0	Z	V
16ZOZ	Sources of Irradiation and Environment Ladislav Musílek, Ond ej Ko istka, Lenka Thinová, Václav Št pán, Tomáš Urban, Tomáš echák Václav Št pán Václav Št pán (Gar.)	KZ	4	2P+2C	L	V
	the courses of this group of Study Plan: Code=BSPJIRZPV Name=	BS P_JIB R	ŽP Opti			
	Safe operation of nuclear facilities				KZ	2
The aim of the subject is	to familiarize students with basic principles of nuclear safety.					
Development of classical	History of Physics 2 I mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, co	rpuscular and w	ave approa	1	Z	2 etism -
electrostatics, galvanism	I mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, con , electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its la	ws, statistical p	hysics, Bol	ach. Electricity tzmann. The t	and magne	etism - ern quantum
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The subject is the contin	idation of the course General chemistry i. The main attention is paid to general principles governing chemical processes. Os	ing various examp	
the validity of these prin	ciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by	examples solved
in exercises.			
12PAS	Computer Algebra Systems	Z	2
Practically oriented intro	duction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is r	ealized in comput	er classrooms:
students acquire basic s	skills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
			(

students acquire basic s	kills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
18PRC1	Programming in C++ 1	Z	4
This course covers main	nly the C programming language and non-object oriented features of the C++ language.		
18PRC2	Programming in C++ 2	KZ	4
This course covers the	object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template	e Library.	

01RMAF	Equations of Mathematical Physics	Z,ZK	7
The subject of this cours	se is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integr	al transformations	s, and solution of
	ions (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01STME	Statistical Methods with Applications	ZK	2
	selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric r		ncy tables, and
their application. The air	n is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical software a	are also included.	
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
02TEF1	Theoretical Physics 1	Z,ZK	4
The course is an introdu	ction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formal	ism as well as dife	rent approaches
to description of dynami	ics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on element	ary examples like	the two-body
problem, the motion of a	a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principl	es of mechanics.	The subject is
the first part of the cours	se of classical theoretical physics (02TEF1, 02TEF2).		
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
Foundation of thermody	namics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Ch	atelier principle. St	tatistical entropy.
Basics of many body de	escriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canon	ical ensemble, Fe	rmi gas, models
of crystals and the black	k body radiation). The Boltzmann equation is usedto discusses simple transport phenomena.		
14TED	Creating Electronic Documents	Z	2
Basic skills for creating	and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, present	ations and entire	documents in an
office suite.			
17UING	Introduction to Engineering	KZ	3
This course provides int	roduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and be	havior, basics of r	manufacturing
and production, quality a	assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be included.		
12UNXAP	Introduction to UNIX	Z	2
Computer and operating	systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	ace. Hardware and	l software.
Principles of operating s	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working	g with files. Text eo	ditors: vi, emacs.
Command interpreter (s	hell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard	d tools. Graphical	user interface
X-windows. Computer n	etworks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a	computer. Network	services:
hardware sharing, mail,	scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriented Intro	oduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with	n some basic tools	s fort scientific
and technicval computin	ng, data analysis, data visualisation and algorithm development.		
16UVJZ	Introduction to Decommissioning of Nuclear Facilities	Z,ZK	4
The course aims to fami	liarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course	e of the preparation	n and realization
-	project. It includes implementation of site decommissioning including legislative requirements to protect employees and the	-	nst radiation and
	neir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more	nitoring systems.	
18ZALG	Basics of Algorithmization	Z,ZK	4
This course is devoted t	o selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the	ne algorithm comp	olexity.
12ZEL1	Basic Electronics 1	Z,ZK	3
The subject provides pri	mary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir	rcuit analysis meth	nods for linear
circuits include symbolic	and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effe	cts inside linear ci	rcuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follows up v	vith the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic	themes of logical	circuits field.
16ZEDB	Basics of Experimantal Data Processing	ZK	2
Statistical analysis of ex	perimental data; univariate data; calibration; regression; multivariate data.		
16ZOZ	Sources of Irradiation and Environment	KZ	4
The subject provides an	overview of the usage of ionizing radiation from its discovery and first applications to modern methods. It allows the student	to acquire the ba	sic knowledge
about ionizing radiation	use a The subject deals with the fundamental issues related to isnining radiation and the sofety of dealing with the sources	(ID T) .	
	usage. The subject deals with the fundamental issues related to ionizing radiation and the safety of dealing with the sources of	of IR. The course in	ncludes practical

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	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3	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	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 V ra Šlechtová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3	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	Z	2	0+2	Z	V
04XRM1	V ra Ślechtová Russian for Intermediate Students M1	Z	2	0+2	Z	V
04XRM2	V ra Šlechtová Zhanna Isaeva (Gar.) Russian for Intermediate Students M2	Z	2	0+2	L	V
04XRM3	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Intermediate Students M3	Z	2	0+2	Z	V
04XRP1	V ra Slechtová Russian for Advanced Students P1	Z	2	0+2	Z	V
04XRP2	V ra Šlechtová Zhanna Isaeva (Gar.) Russian for Advanced Students P2	Z	2	0+2	L	V
04XRP3	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Advanced Students P3	Z	2	0+2	Z	V
04XRZ1	V ra Ślechtová Russian for Beginners Z1	Z	2	0+4		V
04XRZ2	Zhanna Isaeva Žhanna Isaeva (Gar.) Russian for Beginners Z2	Z	2	0+4	z	V
04XRZ3	V ra Šlechtová Zhanna Isaeva (Gar.) Russian for Beginners Z3	Z	2	0+4		V
04XRZ4	Zhanna Isaeva Žhanna Isaeva (Gar.) Russian for Beginners Z4	Z	2	0+4	z	
UHAN <u>2</u> 4	V ra Šlechtová	Z	2	0+4	<u> </u>	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 I	Name=BS P j	azyky za	p		1
	glish for Intermediate Students M1	,	,,,		Z	2
	udents who have successfully completed the full secondary school English language	course at least at	the A2 level	of the Com	1	
	(CEFR). It provides an introduction into English for Specific and Academic Purposes (					
	communication situations. Thus it covers topics related to the student's life and needs				-	
extending the knowledge of g			0.000100			aloo pala to
					7	
	glish for Intermediate Students M2				Z	2
	student to have completed the AM1 course. It develops their skills for work with subte					
	P and EAP (e.g., definition, existence and classification of phenomena, object descript	ions). Part of the c	ourse is also	o guided wri	ting. If necess	ary, grammar
revision is included.						
04XAM3 End	glish for Intermediate Students M3				Z	2
	s that enable students to cope with features typical of professional style. Increasing atte	ntion is paid to dev	velopina sub	technical vo		l independent
	I texts. Great emphasis is placed on distinguishing different levels of formal and inform					
	includes studying abstracts and rules for writing them as well as basic rules for prepa	ning and giving a s	sion preser	itation on a	chosen topic	
student's field.						
04XAP1 Eng	glish for Advanced Students P1				Z	2
The course is designed for st	udents who have successfully completed the full secondary school English language	course (at least th	ne B1 level o	of the Comm	non Europear	n Framework
( ) ( )	- CEFR). It provides an introduction into English for Specific and Academic Purposes	(ESP, EAP), i.e., i	nto the fund	amentals of	vocabulary, f	unctions,
of Reference for Languages				ione graph		
		thematics and phy	/sics. definit		descriptions.	etc). It also
grammar, and style typical of	professional oral and written communication situations (fundamentals of terms in main					
grammar, and style typical of covers professional oral and v	professional oral and written communication situations (fundamentals of terms in main written communication on topics related to the undergraduate's life and needs. It develop					
grammar, and style typical of covers professional oral and v polite request). If necessary,	professional oral and written communication situations (fundamentals of terms in mar written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included.				g a CV, letter	of application,
grammar, and style typical of covers professional oral and v polite request). If necessary, 04XAP2 Eng	professional oral and written communication situations (fundamentals of terms in mar written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2	os skills for free pro	ofessional w	riting (writing	g a CV, letter o	of application,
grammar, and style typical of covers professional oral and v polite request). If necessary, 04XAP2 Env The AP2 course is based on	professional oral and written communication situations (fundamentals of terms in mai written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even	os skills for free pro	ofessional w	riting (writing	g a CV, letter o Z es of science.	of application, 2 According to
grammar, and style typical of covers professional oral and v polite request). If necessary, 04XAP2 Env The AP2 course is based on	professional oral and written communication situations (fundamentals of terms in mar written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2	os skills for free pro	ofessional w	riting (writing	g a CV, letter o Z es of science.	of application, 2 According to
grammar, and style typical of covers professional oral and v polite request). If necessary, 04XAP2 Eng The AP2 course is based on the students' needs it concer	professional oral and written communication situations (fundamentals of terms in mai written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even	os skills for free pro with professional ntactic structures a	ofessional w texts of cho and typical r	riting (writing	g a CV, letter o Z	2 According to various types
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grammar, and style typical of covers professional oral and v polite request). If necessary, 04XAP2 Eng The AP2 course is based on the students' needs it concer of descriptions, and, if possib The course extends the stude	professional oral and written communication situations (fundamentals of terms in mai written communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even ntrates on chosen grammar topics, but mainly intends to develop understanding of syr le, a case study). Increasing emphasis is placed on the undergraduate's independent	os skills for free pro with professional ntactic structures a t work with and re	texts of cho and typical r ading of ling	riting (writing sen branche hetorical fur juistically m	g a CV, letter o Z es of science. nctions (e.g., ore demandir	2 According to various types ng materials.
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grammar, and style typical of covers professional oral and weights         polite request). If necessary,         04XAP2       Eng         The AP2 course is based on the students' needs it concerts         of descriptions, and, if possite         The course extends the study         paragraph structure, linking,         04XAP3       Eng         The course extends the study         paragraph structure, linking,         04XAP3       Eng         The AP3 course is based on a communication skills and function also preparing a project on a communication.         04XCESZ1       Cze         The course is designed for state acquire basic language and scommunications. The A1 (CEFR) approximately.         04XCESZ2       Cze         The language and communic communication of frequent to have reached A2 (CEFR) approximately.         04XCESZ3       Cze         The course further develops correct pronunciation, deepe of dialogue. They also practise         04XCESM1       Cze	professional oral and written communication situations (fundamentals of terms in main viritten communication on topics related to the undergraduate's life and needs. It develop revision of selected grammar topics is included. glish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even intrates on chosen grammar topics, but mainly intends to develop understanding of syr- ble, a case study). Increasing emphasis is placed on the undergraduate's independent ent's subtechnical vocabulary, and includes fundamental notions of chosen branches of cohesion and coherence in texts. glish for Advanced Students P3 AP2 and expects the student to work without any guidance with authentic professional ctions (e.g., expressing an opinion, agreement, and objections; taking part in discussi given or chosen topic and presenting it. The course places emphasis on distinguishin ech for Foreigners - Beginners 1 udents on the English programme. Students will become acquainted with the main chas speaking skills. The course focuses on pronounciation exercises, simple social phrase e course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and ech for Foreigners - Beginners 2 mation competences acquired in CESZ1 are further developed. Students extend their ku pics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remedio proximately. ech for Foreigners - Beginners 3 the language and communication competences acquired in the XCESZ1 and XCESZ1 ning grammar, including grammar practice, and introducing Czech culture. Students a	with professional ntactic structures a t work with and re of science. It is foc materials and to ir on, note-taking; si g levels of formal aracteristics of Cz s, and oral and wi E. echová. At the nowledge of Czec osová and E. ech 2 courses. The tea re asked to produ e course covers re	texts of cho and typical r ading of ling used on for ummarizing and informa ech (phonet ritten comm e end of the h declensio nová. At the aching focus ce simple te pughly lesso	riting (writing sen branche hetorical fur juistically m mal writing i ext. It includ , writing an al language ic and gram unication in course, the n and conjug end of the construction sets on buildi exts and the mas 5-7 in "	g a CV, letter of Z as of science. as of science. actions (e.g., ore demandir ncluding the association Z association or al association both in or al a Z association or al association both in or al association mar features; the most com students will Z association system course, the stu- z association of the stu- course, the stu- z association of the stu- course, the stu- z association of the stu- course of the stu- students will Z association of the students will be students wil	2 According to various types ag materials. sentence and 2 al and written , if possible, nd written 2 and they will mon have reached 2 and practise udents will 2 vocabulary, quent types s 1". 2

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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 rea	iding skills and tra	ins 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 espec		
	any locased on a	tyliotico 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 Eu	uropean Framewo	rk of Reference.
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures typical of	science. Students	are taught the
basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies and	Student Life. Writ	ten practice
includes communication with teachers and faculty administrators.		
	7	
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 a	nd specialist texts	placing greater
emphasis on individual work.		
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		
	n, and, initially, pre	
student's project. Writing skills necessary for professional communication are trained.	r	
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in bo	th written and ora	I form. Students
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr	ansmit general an	nd technical
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy	-	
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, per	-	
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work		
04XFM2 French for Intermediate Students M2	Z	2
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	texts, features typ	ical for technical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	ence and technolc	av. French
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		3,,
	7	
04XFM3 French for Intermediate Students M3	Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (	subordinate and ir	nfinitive clauses,
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl	ass. The paper is	linked to the
field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	ork compiled from	French articles
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and o	coherence.	
	7	2
04XFP1   French for Advanced Students P1	<u> </u>	_
FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both with the second secon		
be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gene	eral and technical	information and
to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re-	peated and expan	nded: subjonctif,
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactiona	al letters, CV, pers	onal statement,
request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topi	ics of specializatic	n: mathematics,
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.	·	ŕ
	7	
04XFP2 French for Advanced Students P2	Z	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication or	n given topics. Fea	atures typical of
technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3 French for Advanded Students P3	7	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	engineering envir	onment Special
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cov	ers a tecrifical/a	pplied science
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFZ1 French for Beginners Z1	Z	2
French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in s	socializing and in	professional life.
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able	e to communicate	at elementary
level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda		-
(Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions,		-
	-	-
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat	ion and grammar.	
04XFZ2 French for Beginners Z2	Z	2
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of t	he textbook: Prav	da - Pravdová :
French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement		
thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	0	, , , , , , , , , , , , , , , , , , , ,
How does the machine work? A few expressions concerning the study. Name of University and Faculty.	dification: opcome	
04XFZ3 French for Beginners Z3	Z	2
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F	ravdová: French f	or Beginners.
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in	formation and lou	Id as part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4 French for Beginners Z4	Z	2
	I I	
The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The c		
lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lec		
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shop	pping, weather, ur	niversity in our
country and in France, 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		
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla	auses, typical con	junctions,
subjunctive clauses, gerund, passive,		

04XNM2	German for Intermediate Students M2	Z	2
The course introduces	other more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between techno	logy and society,
° °	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	natically revises o	ther grammatical
	for professional discourse (participles, relative clauses).		
04XNM1	German for Intermediate Students M1	Z	2
-	urse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and		
-	ses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Reput		
	ogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist	ts, and the fundar	nentals of IT
	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	_	
04XNM3	German for Intermediate Students M3	Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relation		
Ŭ	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	0,7	
	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	natically revises o	ther grammatical
	for professional discourse (participles, relative clauses).	_	2
04XNP1	German for Advanced Students P1	Z	2
	bod grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le		
	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for	,	
-	structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	practical everyday	communication,
i.e., telephoning.	O among fair A diamaged Officiality DO	7	0
04XNP2	German for Advanced Students P2	Z	2
	e students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	° °	
	oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and	a practising format	communication,
	XV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	7	0
04XNP3	German for Advanced Students P3	Z	2
	3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a va	-	
	ar accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v		
	ring, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used	-	
	process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The	ne course also inc	ludes translation
practice to and from Ge			0
04XRM1	Russian for Intermediate Students M1	Z	2
, e	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphab		
-	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask		
	nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	level of the RZ2	course. The
Contents and scope of	the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.		
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04XRM2	Russian for Intermediate Students M2	Z	2
04XRM2 The course is based or	Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	1	
04XRM2 The course is based or 04XRM3	Russian for Intermediate Students M2         the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3	Z	2
04XRM2 The course is based or 04XRM3 The course develops th	Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	Z	2
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44XR25       Russian for Beginners Z5       Z       2         he course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summarizing iformation form a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on veryday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, assive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)         4XSM1       Spanish for Intermediate Students M1       Z       2         he course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard ocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and ubjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them.       4XSM2       Spanish for Intermediate Students M3       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2       2         he course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be ble to work with specialized texts on the Intermeti
Information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on veryday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, assive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)         4XSM1       Spanish for Intermediate Students M1       Z       2         he course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard ocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and ubjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them.         4XSM2       Spanish for Intermediate Students M3       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2       2         4XSM3       Spanish for Intermediate Students M3       Z       2       2         he course books are supplemented with additional subtechnical materials, so the students will be gradually a
veryday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, assive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 4XSM1 Spanish for Intermediate Students M1 Z 2 he course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard ocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and ubjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. 4XSM2 Spanish for Intermediate Students M3 Z 2 he course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be ble to work with specialized texts on the Internet. 4XSM3 Spanish for Intermediate Students M3 Z 2 he course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent nough 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
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AXSM1       Spanish for Intermediate Students M1       Z       2         he course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard ocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and ubjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them.         4XSM2       Spanish for Intermediate Students M3       Z       2         he course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be ble to work with specialized texts on the Internet.       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2         he course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent nough 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
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ocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and ubjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them.         4XSM2       Spanish for Intermediate Students M3       Z       2         he course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be ble to work with specialized texts on the Internet.       Z       2         4XSM3       Spanish for Intermediate Students M3       Z       2         he course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent nough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information
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4XSM2       Spanish for Intermediate Students M3       Z       2         he course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be         ble to work with specialized texts on the Internet.         4XSM3       Spanish for Intermediate Students M3       Z       2         he course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent       nough 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
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nal part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.
4XSP1 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 communication. Course prerequisites: level B2
f CEFR.
4XSP2 Spanish for Advanced Students P2 Z 2
course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent
ritten communication.
4XSP3 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 focused on written communication
ased on what students will need in their career.
4XSZ1 Spanish for Beginners Z1 Z 2
ourse SZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental grammar structures and will
e able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it.
4XSZ2 Spanish for Beginners Students Z2 Z 2
ourse SZ2 is based on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis will be chosen so as to enable
nem to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic.
ealia of Spanish-speaking countries are also included.
4XSZ3 Spanish for Beginners Z3 Z 2
he course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the Spanish-speaking countries,
nainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral
ommunication on a given general topic, for which the student is trained by reading texts or listening to them.
4XSZ4 Spanish for Beginners Z4 Z 2
he course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish speaking countries, mainly of
pain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive),
o written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.
4XSZ5 Spanish for Beginners Z5 Z 2
he course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final
art, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination.

### List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology	Z	1
	The course introduces the basics of micro- and macroeconomics.		
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
00MAM2	Essentials of High School Math Course 2	Z	1
	Review of basics of high school mathematics.	•	
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is foc	used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of put	blic speech
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	integral part of the	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
		·	·

1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional series, power series, Series Expansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation of variables, homogeneous equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficients and special right-hand side, Euler differential equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and non-isolated point, boundary of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fourier series, trigonometric Fourier

series and their co	onvergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total o Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equation	•	gent plane,
01ANB4	Calculus B 4	Z,ZK	6
	o et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4] f	1 1	-
	kartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstr	-	
Integrální po et f	unkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu	eova v ta. Limita, s	spojitost a
	derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.		
01LAL	Linear Algebra 1	Z	2
1. vector space. 2	<ol> <li>Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of I theorem.</li> </ol>	inear mappings. 7.	Frobenius
01LAL2	Linear Algebra 2	Z,ZK	4
	se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an	1 1	
	gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr		
of determinants	. 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonali	ty. Calculation of or	thogonal
	complements. 6. Geometry – exercises and examples. 7. Adjoint operators.		
01LALZ	Linear Algebra 1, exam	ZK	2
01MAN	Calculus 1	Z	4
0114412	Basic calculus (real analysis, functions of one real variable, differential calculus).	774	8
01MAN2	Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a	Z,ZK	-
	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integr		-
	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral		
01MANZ	Calculus 1, exam	ZK	4
01NME2	Numerical Methods 2	KZ	2
	ted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.		s converting
	dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial diffe		
01PRST	Probability and Statistics	Z,ZK	4
	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	-	-
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testi		anu proveu.
01RMAF	Equations of Mathematical Physics	Z,ZK	7
	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr	1 1	
	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01STME	Statistical Methods with Applications	ZK	2
	ts of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric met		
	cation. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical softw	I I	
02DEF1	History of Physics 1 ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	Z	2 Physics in
	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I		
	as experimental science. Newton and his work.	, g	
02DEF2	History of Physics 2	Z	2
	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		
, 0	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		•
and relativistic p	physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er standard model. The concept of Nature and Universe of today.	hergy, Elementary p	particles,
02ELMA	Electricity and Magnetism	Z,ZK	6
	pulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond		
-	/ Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, N	-	· · · · · · · · · · · · · · · · · · ·
02EXF	Experimental Physics	ZK	2
The goal of this su	bject 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.	,	
02MECH	Mechanics	Z	. 4
	ics, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimension ield, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bod	-	
in central loice i	continuum mechanics, elasticity, hydrodynamics. Sound.	y, rotation. r undan	
02MECHZ	Mechanics - Examination	ZK	2
	The content of the subject is the examination according to the plan of studies.	1 1	
02TEF1	Theoretical Physics 1	Z,ZK	4
	troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism		
	dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar on of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles		-
ווסטופווו, נוופ וווסט	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).	or meenanics. The	300/001 13
02TER	Heat and Molecular Physics	Z,ZK	4
	n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynami	1 1	
	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis		-
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatel		
basics of many bo	dy descriptionfrom 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	ensemble, Fermi g	jas, models

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		
coherence. Geo	metrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro	glie waves,the Sch	rodinger
	equation, stationary states and spectra of finite systems.		
02ZM1	Foundations of Physical Measurements 1	ZK	2
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c ne goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data		
	basic habits of work in a physics lab.	a on a FC. Student	
02ZM2	Foundations of Physical Measurements 2	KZ	4
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c		-
	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data		
	basic habits of work in a physics lab.		
04AKS	English Conversation	Z	1
	velop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication		
-	r various communication situations and will master their communication strategy. They will also practise their listening skills in order t		participate
	iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more cor		-
04XAM1	English for Intermediate Students M1		2 Fromowork
	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C inguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of		
	ind written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical int		
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
	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 ty	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided	writing. If necessa	ry, grammar
	revision is included.		
04XAM3	English for Intermediate Students M3	Z	2
	os the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	-	
-	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation o		
	student's field.	n a chosen topic re	aleu lo lite
04XAMZK	English for Intermediate Students Examination	ZK	4
	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts		
	30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three I		
04XAP1	English for Advanced Students P1	Z	2
The course is desi	gned for students who have successfully completed the full secondary school English language course (at least the B1 level of the C	ommon European	Framework
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamen	-	
	e typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, g		-
covers professional	oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w polite request). If necessary, revision of selected grammar topics is included.	riting a CV, letter of	application,
04XAP2		7	2
-	English for Advanced Students P2 based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brai	, <u> </u>	-
	s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica		-
	d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical		
	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal write		
	paragraph structure, linking, cohesion and coherence in texts.		
04XAP3	English for Advanced Students P3	Z	2
	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	-	
	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing		
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 communication.	uage both in oral a	na written
04XAPZK	English for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a	I I	-
	courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a topic from		-
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	tudent´s vocabular	for various
	social situations.		
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readir	ng skills and trains	the student
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.	·	
04XCESM3	Czech for Foreigners - Intermediate 3		2
i ne last course r	evises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia lexicology and on developing the student's writing skills.	any rocused on styl	istics and
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES		
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	, 2,0 0001363 di	a our only
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	- 1	
	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	s the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	specialist texts pla	icina areater
	emphasis on individual work.		
	emphasis on nuvidual work.	I	1
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	s the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	and finally preser	tation of the
		and, many, procor	
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
	t is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	P1 2 3 courses a	nd can only
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	la call 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
	ned for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features)	and 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 h	ave reached
	A1 (CEFR) approximately.		
04205070		7	
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
The language and	communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and co	onjugation system	and practise
communication of	frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of	the course, the st	udents will
	have reached A2 (CEFR) approximately.	,	
			1
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
The course furthe	r develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	, building up basic v	ocabulary.
	ion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and		-
or dialogue. Th	ey also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons	5-7 in "estina ex	pres 1".
04XCESZZK	Czech for Foreigners – Beginners - Examination	ZK	4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	1	-
	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	-	1
	mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra		
information and to	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	emizes and expan	ds language
	ious 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
Course FM2 builds	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text	ts features typical	for technical
	guage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie		gy, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	ed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub	. –	1
			live clauses,
		and The second sector	
	es, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-classing the second		
	es, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cla- ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work		
field of students' fu		compiled from Fre	ench articles
field of students' fu and one	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work s own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	compiled from Fro on and coherence	ench articles
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	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 pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.	formation and loud a	as part of
04XFZ4	French for Beginners Z4	Z	2
	p on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The co	I – I	
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur		
Students of FJFI.	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp	oing, weather, unive	rsity in our
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	et.	
04XFZ5	French for Beginners Z5	Z	2
	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They p		
0	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl		
10103, 3000033	subjunctive clauses, gerund, passive.		1100010,
04XFZZK	French for Beginners Examination	ZK	3
	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examin	1	-
	Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNM1	German for Intermediate Students M1	Z	2
	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and si		
	processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	-	
environmental is	sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders		ntais of 11
04XNM2	German for Intermediate Students M2	7	2
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation by	🔶 – etween technology a	_
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	0,	
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic	ically revises other g	grammatical
	phenomena important for professional discourse (participles, relative clauses).	,	
04XNM3	German for Intermediate Students M3	Z	2
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation by		-
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemat		
practise reading for	phenomena important for professional discourse (participles, relative clauses).	ically revises other g	grannaucai
04XNMZK	German for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination	1 1	
and oral, which co	ver the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm	ent. More detailed i	nformation
	is to be obtained from the teacher.		
04XNP1	German for Advanced Students P1	Z	2
This course requir	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve	lled off at the begin	ning of the
This course requir course. The course	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d	lled off at the begin letail). It revises and	ning of the develops
This course requir course. The course	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra	lled off at the begin letail). It revises and	ning of the develops
This course requir course. The cours more difficult grammer	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning.	lled off at the begin letail). It revises and	ning of the develops
This course requir course. The cours more difficult gramm 04XNP2	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra	lled off at the begin letail). It revises and ctical everyday com	ning of the develops munication,
This course requir course. The cours more difficult gramm 04XNP2 The course develop	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning. German for Advanced Students P2	lled off at the begin letail). It revises and ctical everyday com Z their general and s	ning of the d develops munication, 2 subtechnical
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This course requir course. The course more difficult gramm 04XNP2 The course develop vocabulary range. I b 04XNP3 The course consist (traffic problems at nuclear power en students are trained 04XNPZK The course contern and oral, which course basic vocabulary for they can use base 04XRM1 The course is design basic vocabulary for they can use base 04XRM2 04XRM3 The course develop 04XRM3 The course contern - RM3. Stud 04XRP1	German for Advanced Students P1 res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be leve se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra i.e., telephoning. Cerman for Advanced Students P2 so the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending tintroduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pr oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi German for Advanced Students P3 sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca gineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. I to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The or practice to and from German. German for Advanced Students Examination t is the examination as given by the study plan. The whole German for Advanced Students are used. Information is to be obtained from the teacher. Russian for Intermediate Students M1 pred or students with previous knowledge of Russian from secondary schools. Students are spopsed to know the Russian alphabet or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking sis grammar structures (verbal and nominal forms, ir	Ided off at the begin         Ided off at the way and giving         Ided of the RZ2 complexity         Ided off the the RZ2 complexity         Ided off the RZ2 complexity         Ided off the RZ3 complexity         Ided off the RZ4         Ided off	ning of the develops imunication, 2 subtechnical munication, 2 situations ids such as sentation, s translation 4 rts - written e detailed 2 andwritten), directions), urse. The 2 ime allotted 4 red in RM1 cher. 2

04XRP2	Russian for Advanced Students P2	Z	2
	ed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	ہ rb aspects, specific	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 good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students			
	chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acci		
	technical topics.		
04XRPZK	Russian for Advanced Students Examination	ZK	4
The course conten	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	ge and skills acqui	red in RP1
	ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	uctions by the teac	
04XRZ1	Russian for Beginners Z1	Z	2
-	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)	-	-
the Russian alpha	a short text with marked stress, understand its contents and summarize it.	. Olddenits will be a	
04XRZ2	Russian for Beginners Z2	Z	2
The second semes	ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte	chnical texts. Stud	ents will be
able to communication	te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also		abulary and
0.41/10.70	master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	-	
04XRZ3	Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training	Z	2
	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		<b>u</b>
j,	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
	d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a c		
	nunication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs		
	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a n more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g.		
communication o	forms, look up the information from the timetable, learn about Russian holidays and typical meals.	, Siberia), learri no	w to mi m
04XRZ5	Russian for Beginners Z5	Z	2
	s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandin	ہ g, extracting and s	ummarizing
	specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Comm		
	Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (		participles,
04XRZZK	ve voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po Russian for Beginners Examination	ZK	3
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	1	-
	ents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr		
04XSM1	Spanish for Intermediate Students M1	Z	2
	signed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest	-	
	ays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negativ ), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tex		
04XSM2	Spanish for Intermediate Students M3	7	2
	ops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	ecific purposes in a	
	able to work with specialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi		-
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 shor		naries. The
04XSM7K	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex-		1
04XSMZK The course content	Spanish for Intermediate Students Examination t is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written pa	ZK art. students will ha	4 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		2
Course SP2 is the	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta: written communication.	k and locuses on in	Idependent
04XSP3	Spanish for Advanced Students P3	Z	2
	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	- 1	
	based on what students will need in their career.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course content	t 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
042674	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the Spanish for Regimeers Z1	z student.	
04XSZ1 Course SZ1 is the f	Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	1	2 res 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	Z	2
	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis	will be chosen so a	
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other	s such as the Czec	h Republic.
	Realia of Spanish-speaking countries are also included.		

04XSZ3	Spanish for Beginners Z3	Z	2
	d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of th		
mainly of Spain. I	t pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	. It includes written	and oral
0.41/07.4	communication on a given general topic, for which the student is trained by reading texts or listening to them.	7	-
04XSZ4	Spanish for Beginners Z4	Z	2
	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish 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	-	Juncuve),
04XSZ5	Spanish for Beginners Z5	<b>7</b>	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for		
	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina		
04XSZZK	Spanish for Beginners Examination	ZK	3
	int is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	1	-
	passed the written examination test.	,	
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		tasks very
important for physi	cists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat	ional environment N	IATLAB is
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12PAS	Computer Algebra Systems	Z	2
Practically oriented	d introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is real	ized in computer cla	assrooms:
	students acquire basic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
12UNXAP	Introduction to UNIX	Z	2
	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa		
	ing systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi		
	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	-	
	hardware sharing, mail, scp, etc. Network applications		el vices.
12UPF1	Introduction to Computational Physics 1	Z,ZK	2
	on and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program		
	sualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance		
	software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.		
12UPF2	Introduction to Computational Physics 2	Z,ZK	2
Nonlinear models,	complex systems, chaotic systems, fractals and their applications in physics. Artificial intelligence methods: neural networks, machin	e learning, genetic	algorithms,
	expert systems and their applications in physics. Quantum computing. Virtual reality.		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriente	d Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s	ome basic tools for	scientific
	and technicval computing, data analysis, data visualisation and algorithm development.		
12ZEL1	Basic Electronics 1	Z,ZK	3
	les primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	-	
12ZEL2	Basic Electronics 2	Z,ZK	3
	vs up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	<i>'</i>	
14TED	Creating Electronic Documents	7	2
	ting and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentatio	ns and entire docur	- 1
	office suite.		
15CH1	General Chemistry 1	Z	3
	t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	1	
	solved in exercises.		
15CH2	General Chemistry 2	Z,ZK	3
	ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using	/arious examples, t	
the validity of these	principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	illustrated by examp	oles solved
	in exercises.		
16DETE	Detectors of Ionizing Radiation	ZK	4
Gas filled detectors	(ionization chambers, proportional counters, Geiger-Müller counters, corona counters), organic and inorganic scintillation detectors, C	harankov countare	evaluation
	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors.		
16EPAM	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments	ZK	2 phropology
Aims and methods o	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati	ZK on methods, dendro	chronology,
Aims and methods o	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments	ZK on methods, dendro	chronology,
Aims and methods of archaeomagnetis	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and photogrammetry.	ZK on methods, dendro	chronology, ethods),
Aims and methods of archaeomagnetis	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and	ZK on methods, dendro nalysis and other m Z	chronology,
Aims and methods of archaeomagnetis	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a photogrammetry. Excursion	ZK on methods, dendro nalysis and other m Z	chronology, ethods),
Aims and methods of archaeomagnetis 16EXK Excurs 16OSE	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a photogrammetry. Excursion sion in research institutes, laboratories and cooperative universities(CERN, JINR, TU Dresden,) and modern research trends usig i	ZK on methods, dendro nalysis and other m Z onizing radiation. Z	chronology, ethods), 2 3
Aims and methods of archaeomagnetis 16EXK Excurs 16OSE In the first part of th	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a photogrammetry. Excursion sion in research institutes, laboratories and cooperative universities(CERN, JINR, TU Dresden,) and modern research trends usig i Professional Seminar	ZK on methods, dendro nalysis and other m Z onizing radiation. Z irements for bachel	chronology, ethods), 2 3 pr's degree
Aims and methods of archaeomagnetis 16EXK Excurs 16OSE In the first part of th projects at the fact the research res	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a photogrammetry. Excursion sion in research institutes, laboratories and cooperative universities(CERN, JINR, TU Dresden,) and modern research trends usig i Professional Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ ulty. The second part is designed as a practical training for the defence of the bachelor's degree project. The students give oral present ults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the professional seminars.	ZK on methods, dendro nalysis and other m Z onizing radiation. Z irements for bachel ntations of the curre ossibilities of impro	chronology, ethods), 2 3 or's degree nt state of ving the
Aims and methods of archaeomagnetis 16EXK Excurs 16OSE In the first part of th projects at the fact the research res student's performa	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and photogrammetry. Excursion sion in research institutes, laboratories and cooperative universities(CERN, JINR, TU Dresden,) and modern research trends usig i Professional Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ ulty. The second part is designed as a practical training for the defence of the bachelor's degree project. The students give oral present ults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the profees. Third part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing radiation	ZK on methods, dendro nalysis and other m Z onizing radiation. Z irements for bachel ntations of the curre ossibilities of impro- , and radiation prote	chronology, ethods), 2 3 or's degree nt state of ving the ection with
Aims and methods of archaeomagnetis 16EXK Excurs 16OSE In the first part of th projects at the fact the research res student's performa	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a photogrammetry. Excursion sion in research institutes, laboratories and cooperative universities(CERN, JINR, TU Dresden,) and modern research trends usig i Professional Seminar e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ ulty. The second part is designed as a practical training for the defence of the bachelor's degree project. The students give oral present ults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the professional seminars.	ZK on methods, dendro nalysis and other m Z onizing radiation. Z irements for bachel ntations of the curre ossibilities of impro- , and radiation prote	chronology, ethods), 2 3 or's degree nt state of ving the ection with

16PADR	Practical Analysis of Data and Risks	KZ	4
	urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, useful for		
main content of th	e course is practical application of theoretical procedures, especially data analysis using available software solution. Students will lea	irn to perform com	prehensive
40017	analysis and evaluation of data and risks.	1/7	
16PNZ	Problems of Non-ionizing Radiation I on biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and metho	KZ	2
Subject is locused	resonance and ultrasound as applied in various types of technical or medical equipment are given as well.		n magnetic
16PSE	Topical Dosimetry Seminar	Z	2
	posed to motivate the student's interest in the field of dosimetry and provide basic information about different applications of ionizing ratio		
and in human life.	The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or in various organization	ons (SÚRO, v.v.i., l	ÚJFAVR
v.v.i., ÚJV ež, M	VI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar	nd current topics in	the field of
-	students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t		
_ 16RAON	Radiation Protection	ZK	4
The course covers	the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The or	course is accepted	as training,
160 470	which allows obtaining special competence in radiation protection and learner receives appropriate certificate.	7 71/	2
16RAZP	Radioactivity in the Environment The course provides a comprehensive view of the source of ionizing radiation occurring in the environment.	Z,ZK	3
16UAZB	Principles of Ionizing-Radiation Applications	ZK	2
	of applications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radion		
	and scattering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the u		
16UJRF1	Introductory Nuclear and Radiation Physics 1	Z,ZK	4
The aim of the cou	rse is to provide students with basic knowledge about atomic nucleus and radiation physics, which is followed by other specialized lec	tures. The subject	summarizes
thematic areas: de	evelopment of opinions on micro-wave and radiation physics, basic characteristics of the atom and nucleus, binding energy, measurer	nent of mass and o	dimensions
of the nuclei, the m	ost important nuclear models. General characteristics of the interaction of ionizing radiation with the matter, interaction of alpha, beta,	gamma and neutro	on radiation,
	passage of radiation beams through the matter, radiation effects in matter.		
16UJRF2	Introductory Nuclear and Radiation Physics 2	Z,ZK	4
	rse is to provide students with basic knowledge about atomic nucleus and radiation physics, which is followed by other specialized lect		
thematic areas: ge	neral properties of radioactive decay, alpha decay, proton radioactivity, beta decay, gamma emission, natural radioactivity, properties a nuclear fission, transuranium elements, thermonuclear reaction.	and types of nuclea	ar reactions,
16UVJZ	Introduction to Decommissioning of Nuclear Facilities	Z,ZK	4
	amiliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course of	· · ·	
	project. It includes implementation of site decommissioning including legislative requirements to protect employees and the env		
	nagement in their categorization, transport, release to the environment and disposal. It deals with documentation and centralization o	-	
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, develo	oment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz	ations, energy tran	sfer and
	absorption. Fundamentals of the effects of ionizing radiation.		
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2	Z,ZK	4
Fundamentals of b	iological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles a	and methods of me	asurements
407500	in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure.	71/	
16ZEDB	Basics of Experimental Data Processing	ZK	2
16ZIVB	Statistical analysis of experimental data; univariate data; calibration; regression; multivariate data.	KZ	2
	Introduction to Ecology about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the envirc		
	indicators and sustainable development.		
16ZOZ	Sources of Irradiation and Environment	KZ	4
	des an overview of the usage of ionizing radiation from its discovery and first applications to modern methods. It allows the student to		
about ionizing radia	ation usage. The subject deals with the fundamental issues related to ionizing radiation and the safety of dealing with the sources of IR	The course includ	des practical
	exercises with processing the data and subsequent presentation of the results.		
16ZPRD	Elementary Labs	KZ	3
	urse is to acquaint students with applications of ionizing radiation detectors and also with the principles of detection and spectrometry	-	-
radiation detectors	in this course is considered as a device which produces an evaluable signal at the time of interaction (unlike dosimeters). The aim of	the course is to ur	nderstand to
	basic principles of detection and calibration of common instruments in the field of ionizing radiation measurement.		
16ZRIZ	Health risks of ionizing radiation	ZK	2
	rse is to acquaint students with the radiobiological basics of radiation protection. The basis of the course is an introduction to the biolog		-
	Jular, cellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and its evaluated and the stochastic effects of ionizing radiation, health harm, risk and the stochastic effects of ionizing radiation, health harm, risk and the stochastic effects of ionizing radiation, health harm, risk and the stochastic effects of ionizing radiation, health harm, risk and the stochastic effects of ionizing radiatis effects of ionizing radiatis eff	_	
17BPJI1 Student on the bas	Bachelor Thesis 1 sis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject is give	Z n by self-reliant wa	5
Student on the bas	topic. The work is continuously check by a supervisor.	in by Self-Tenant we	on given
17BPJI2	Bachelor Thesis 2	Z	10
	isis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject is give		
	topic. The work is continuously check by a supervisor.		U -
17BPROV	Safe operation of nuclear facilities	KZ	2
	The aim of the subject is to familiarize students with basic principles of nuclear safety.	·	'
17ENEF	Experimental Neutron Physics	KZ	3
The course is focus	sed on experimental methods and experiments in the field of neutron physics, mainly using radionuclide neutron sources. The lectures	are devoted to the	e theoretical
-	or preparation and realization of the laboratory exercises and to the methods of experimental data processing and evaluation. Specifical		
-	ron properties and their utilization, the characteristics of neutron sources, properties of prompt and delayed neutrons, selected method		
•	nces, production, formation and modification of neutron fields and neutron beams. The lectures are complemented by the laboratory e arement of delayed neutrons, study of neutron transport in various substances, experiments with various neutron sources (252Cf, Am		
	I detection of photo-neutron source, calibration of the radionuclide neutron source. The experiments are realized at the VR-1 training i	-	
1			

17JARE	Nuclear Reactors	ZK	2
Introduction. World	power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety syster	ns, containment. C	Classification
of reactors into IV g	enerations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. Pres	surized water read	ctors (PWR).
Western-type F	PWR (Westinghouse, KWU, Framatom). VVER-type reactors, Temelín nuclear power plant. Boiling water reactors. Heavy water react	ors, fast breeder r	eactors,
high-temperature	gas cooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF and	INPRO initiatives	. Evaluation
and	selection of proposed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in lo	ng-term outlook	
17UING	Introduction to Engineering	KZ	3
This course provid	les introduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and beha	vior, basics of ma	nufacturing
a	nd production, quality assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will	be included.	
18PMTL	Programming in MATLAB	KZ	4
Introducing Matlab	environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy	sis, statistics, algo	rithmization
	and geometric representation of results.		
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.		•
18PRC2	Programming in C++ 2	KZ	4
This co	burse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library.	
18ZALG	Basics of Algorithmization	Z,ZK	4
This course is	devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	the algorithm com	plexity.
18ZPRO	Basics of Programming	Z	4
This course is in	tended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	nming and with th	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

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