Study plan

Name of study plan: Jaderné inženýrství - Aplikovaná fyzika ionizujícího zá ení

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

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

Code of the group: BSPJIAFIZ1 Name of the group: BS P_JIB AFIZ 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: Podmínkou skládání zkoušky 01MANZ je získání zápočtu z 01MAN. Podmínkou skládání

zkoušky 01LALZ je získání zápočtu z 01LAL.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	2	2+0	Z	PS
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.)	Z,ZK	6	4+2	L	PS
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		PS
01LALZ	Linear Algebra 1, exam Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		PS
01LAL2	Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		PS
01MAN	Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Miroslav Kolá, Edita Pelantová, Maksym Dreval Edita Pelantová Maksym Dreval (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics David B e Antonín Hoskovec David B e (Gar.)	Z	4	4+2	Z	PS
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David B e , Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David B e (Gar.)	ZK	2	-	Z	PS
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	PS
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	PS
16UJRF1	Introductory Nuclear and Radiation Physics 1 Ladislav Musílek Ladislav Musílek Ladislav Musílek (Gar.)	Z,ZK	4	2P+2C	L	PS

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02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	PS
02ZM2	Foundations of Physical Measurements 2 Petr Chaloupka Petr Chaloupka (Gar.)	KZ	4	0P+4L	L	PS
18ZPRO	Basics of Programming Maksym Dreval, Nichita Vatamaniuc, Jan Vondruška, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	PS
Characteristics of th	e courses of this group of Study Plan: Code=BSPJIAFIZ1 Name	=BS P_JIB A	FIZ 1st	/ear		
02DEF1 H	istory of Physics 1				Z	2
Physics and its place in the	system of sciences. The relationship of man and nature. Natural sciences in ancient Or	rientand Greece,	Greek natui	al philosoph	ers, Aristotle	. Physics in
Helenistic period, Archimed	d. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano I	Bruno. Copernicus	s, Kepler, G	alileo, Huyg	ens. The birth	n of physics
as experimental science. N	ewton and his work.					
02ELMA E	lectricity and Magnetism			Z	,ZK	6
Electric charge, Coulomb's	law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric	ics. Electric curre	nt and circu	its, conducti	vity. Basics o	f the relativity
theory. Electrodynamic force	es, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagnetic	waves, Max	well equation	ons.	
01LAL Li	near Algebra 1				Z	2
1. Vector space. 2. Linear d	ependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	5. Linear mappin	gs. 6. Matrie	ces of linear	mappings. 7	. Frobenius
theorem.						
01LALZ Li	near Algebra 1, exam				ZK	2
	near Algebra 2			7	,ZK	4
-	nd operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvecto	r. diagonalization)	. 4. Hermiti			-
	6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. M					
	tion of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.					
complements. 6. Geometry	exercises and examples. 7. Adjoint operators.					-
01MAN C	alculus 1				Z	4
	is, functions of one real variable, differential calculus).			I	- 1	
	alculus 1, exam				ZK	4
	alculus 2				,ZK	8
-	al calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen	ce operations on	corios abs	1	·	U U
	eries, the Cauchy-Hadamard theorem, expansion of function into power series, summation	-				-
	iques of integration and application of integrals, Generalized Riemann integral		0. 1. Thoory	or integrate.	printitivoo, u	onnio intograi
	echanics				Z	4
	rsical quantities and units. Kinematics of a particle, basic types of motion and their supe	rposition Dynami	cs of a part	icle solvina	- 1	-
	otion in a central force field, forces in non-inertial reference frames. Mechanics of a syst	-		-	-	
of a rigid body, rotation.	···· ·································			, [
	echanics - Examination				ZK	2
	is the examination according to the plan of studies.			I		-
·	reparatory Week				Z	2
	eat and Molecular Physics			7	.ZK	4
-	erials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe	netration: 1st and	2nd therm	1	· ·	•
	ems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials				-	-
	troductory Nuclear and Radiation Physics 1	,			,ZK	4
	provide students with basic knowledge about atomic nucleus and radiation physics, which	ch is followed by c	ther specia			-
	nt of opinions on micro-wave and radiation physics, basic characteristics of the atom an					
	ortant nuclear models. General characteristics of the interaction of ionizing radiation with					
-	s through the matter, radiation effects in matter.	· · · · · , · · · ·		, , 3		, , ,
	oundations of Physical Measurements 1				ZK	2
	students of physical specializations (Experimental particle physics, Physical engineerin	a Nuclear engine	erina) how			
-	f the lecture is to introduce the basics of physical measurements, the methods of process					-
basic habits of work in a ph		0				
02ZM2 F	oundations of Physical Measurements 2				KZ	4
	students of physical specializations (Experimental particle physics, Physical engineerin	g, Nuclear engine	ering), how	1		by students of
other branches. The goal o	f the lecture is to introduce the basics of physical measurements, the methods of proces	ssing and evaluati	on of acqui	red data on	a PC. Studer	ts learn the
basic habits of work in a ph	iysics lab.	-				
18ZPRO B	asics of Programming				Z	4
	inly for students with little or no experience in programming. It familiarizes the students	with the basic cor	cepts in pro	ogramming a	1	
programming language.						
Code of the grou	ıp: BSPJIAFIZ2					

Name of the group: BSP_JIB AFIZ 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: Předmět 02TEF1 lze absolvovat až po absolvování předmětu 02MECHZ.

Tutors, authors and guarantors (gar.) 12ANM Applied Numerical Methods Parel Vicinal, Jan PSikal, Alena Zavadilová Jan PSikal (Gar.) KZ 01ANB3 Calculus B 3 Mroselv Kold, Mian Kródek Milan Kródek Milan Kródek Mian Kródek (Gar.) Z,ZK 01ANB4 Calculus B 4 J I Mikyša, Mroselv Kold, J I Mikyša Mian Kródek (Gar.) Z,ZK 16PSE Topical Dosimetry Seminar Króze ina Plia odx Kate in a Plia odx (Gar.) Z,ZK 02TEF1 Theoretical Physics 1 Parel Noordy Michal J Kate ina Plia odx (Gar.) Z,ZK 02TSFA Thermodynamics and Statistical Physics (Gar.) Z,ZK 16UVB Introduction to Ecology Honor P Kowł Hanne Pr Sovi (Gar.) KZ 16UJRF2 Lintroduction to Ecology Honor P Kowł Hanne Pr Sovi (Gar.) Z,ZK 16UJRF2 Lintroduction to Ecology Honor P Kowł Hanne Pr Sovi (Gar.) Z,ZK 16ZDO21 Fundamentals of Radiation Dosimetry 1 Krod Strokk Mank Kadiak Mialok (Gar.) Z,ZK 16ZDO22N Fundamentals of Radiation Dosimetry 2 Krod Strokk Tomak Trokk Tomak Trokk (Gar.) Z,ZK 16ZDN2 Fundamentals of Radiation Dosimetry 2 Krod Strokk Tomak Trokk (Gar.) Z,ZK 16ZDO21 Fundamentals of Radiation Dosimetry 2 Krod Strokk Trokk Trokk Strokk Tomak Trokk (Gar.) Z,ZK <th>n Credits</th> <th>dits Scop</th> <th>e Semester</th> <th>Role</th>	n Credits	dits Scop	e Semester	Role
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Ladisky Musifiek Ladisky Musifiek Ladisky Musifiek (Gar.) Lextx 02VOAF Josef Schmidt Jan Vysoký Jl i Tolar (Gar.) Z,ZK 16ZDOZ1 Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek (Gar.) Z,ZK 16ZDOZ2N Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek (Gar.) Z,ZK 16ZRIZ Health risks of ionizing radiation Marie Davidková Marie Davidková (Gar.) Z,ZK 16ZRIZ Health risks of ionizing radiation Marie Davidková Marie Davidková (Gar.) ZK Characteristics of the courses of this group of Study Plan: Code=BSPJIAFIZ2 Name=BS P_JIB 12ANM Toriad Toriad Straget	2	2 2+0	Z	PS
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Intervention Tomás Trojek Tomás Trojek Tomás Trojek (Gar.) Link 16ZDOZN Fundamentals of Radiation Dosimetry 2 Tomás Trojek Tomás Trojek Tomás Trojek Tomás Trojek (Gar.) Z,ZK 16ZRIZ Health risks of ionizing radiation Marie Davidková Marie Davidková (Gar.) ZK 16ZANM Applied Numerical Methods ZK Characteristics of the courses of this group of Study Plan: Code=BSPJIAFIZ2 Name=BS P_JIB 1ZANM Applied Numerical Methods For English version use code 12YNME1. There are explained the basic principles of numerical mathematics important for numerical technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are inclu Integrated computational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory an language and MATLAB is also used. Integrated Computational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory an language and MATLAB is also used. Integrate Computer (method of integration facto, equation of equation and exact equation). A Metric spaces - metric, norm, scalar product, neighborhod, interior and exterior points, bound of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion series and their convergence. 5. Olfferential calculus of functions of several variables - limit, continuity, partial and directional deriv Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicith y content ya steries - expansion series and their converegence. 5. Olfferential calculuus of functions of	6	6 4+2	Z	PS
Intervention Tomas Trojek Tomás Trojek (Gár.) ZLK 16ZRIZ Health risks of ionizing radiation Mare Davidková (Marie Davidková (Gar.) ZK Characteristics of the courses of this group of Study Plan: Code=BSPJIAFIZ2 Name=BS P_JIB 12ANM Applied Numerical Methods For English version use code 12YNME1. There are explained the basic principles of numerical mathematics important for numeric technology. Methods for solution of tasks very important for physicits (ordinary differential equations, random numbers) are inclu- Integrated computational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory and language and MATLAB is also used. 01ANB3 Calculus B 3 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integr Expansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems, 4. Fourier series - expansion orthogonal polynomic	4	4 2+2		PS
Marie Davidková Marie Davidková (Gar.) En Characteristics of the courses of this group of Study Plan: Code=BSPJIAFIZ2 Name=BS P_JIB Taxima Applied Numerical Methods For English version use code 12YNME1. There are explained the basic principles of numerical mathematics important for numerical mathematics important for numerical mathematics important for numerical mathematics inportant for numerical mathematics inportant for tasks very important for physicists (ordinary differential equations, random numbers) are includ Integrated computational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory an language and MATLAB is also used. OTANB3 Calculus B 3 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integranismo, Taylor's theorem. 2. Ordinary differential equations of fligher order (fundamental system, reduction of order, variation of parameters, equat side, Euler differential equation) and equations of fugher order (fundamental system, reduction of order, variation of parameters, equat of set, completeness of space. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional deriv Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations. 01ANB4 Calculus B 4 11/ Differenciálni po et funkci vice prom nných a funkcionálnich vektor .[2] Funkce zadné implicitn .[3] Taylorovy ady funkce vic prom nných, nel	4	4 2P+20	C L	PS
12ANM Applied Numerical Methods For English version use code 12YNME1. There are explained the basic principles of numerical mathematics important for numeric technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are includ inlegrated computational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory an language and MATLAB is also used. 01ANB3 Calculus B 3 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integ Expansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equation side, Euler differential equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, bound of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional deriv Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations. 01ANB4 Calculus B 4 [1] Differenciální po et funkci vice prom nných a funkcionálních vektor .[2] Funkce zadané implicitn .[3] Taylorovy ady funkce vi prom nných, nekartézské soustavy sou adnic.[5] Lokální, vázané a globální extrémy funkce více prom nných [6] Záklády teorié motivace integrálu podle parametru.[8] Integrály po k ivkách a plochách. Integrální v ty. <	2	2 2P+00	C L	PS
OTANE3 Calculus B 3 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integrexpansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of factor, equation of a equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equation of first order (method of integration factor, equation of first, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional deriv Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations. 01ANB4 Calculus B 4 [1] Differenciální po et funkci více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce víprom nných, nekartězské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie Integrální po et funkce více prom nných - Riemann va Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substitud derivace integrálu pode parametru. [8] Integrály po k ivkách a plochách. Integrální v ty. 16PSE Topical Dosimetry Seminar The seminary is supposed to motivate the students interest in the field of dosimetry and provide basic information about different ap and in human life. The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or vic. i, UV v ež. MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus	led in addition	dition to the ba	asic numerical m	ethods.
prom nných, nekartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie Integrální po et funkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substitud derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty. 16PSE Topical Dosimetry Seminar The seminary is supposed to motivate the students interest in the field of dosimetry and provide basic information about different ap and in human life. The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or v.v.i., ÚJV ež, MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on d dosimetry, but students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible spe 02TEF1 Theoretical Physics 1 The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and H to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illus problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential a the first part of the course of classical theoretical physics (02TEF1, 02TEF2). 02TSFA Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical point of view (classical and quasiclassical regime within the frame of a canonica of crystals and the black body radiation). The Boltzmann equation is usedto discusses simple transport	Bernoulli, sep ions with cons ary point, iso of functions in	, separation of constant coeff t, isolated and ons into Fourie	variables, homo ficients and spec non-isolated poi r series, trigonor	geneous ial right-han nt, boundary netric Fourie
16PSE Topical Dosimetry Seminar The seminary is supposed to motivate the students interest in the field of dosimetry and provide basic information about different ap and in human life. The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or v.v.i., ÚJV ež, MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on d dosimetry, but students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible spe 02TEF1 Theoretical Physics 1 The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and H to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illus problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential a the first part of the course of classical theoretical physics (02TEF1, 02TEF2). 02TSFA Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical point of view (classical and quasiclassical regime within the frame of a canonica of crystals and the black body radiation). The Boltzmann equation is usedto discusses simple transport phenomena. 16ZIVB Introduction to Ecology The subject inform about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular corindicators and sustainable development. 16UJRF2 Introductory Nuclear and Radiation Physics 2	míry a obrys	brys konstrukc	gulární zobrazer e Lebesgueovy	míry. [7]
problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential a the first part of the course of classical theoretical physics (02TEF1, 02TEF2). 02TSFA Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. 16ZIVB Introduction to Ecology The subject inform about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular conindicators and sustainable development. 16UJRF2 Introductory Nuclear and Radiation Physics 2	in various org escribing res cialization dui amiltonian for	is organizations g research and on during the sto an formalisms a	s (SÚRO, v.v.i., t l current topics ir udies and afterw Z,ZK as well as diferen	ÚJF AV R n the field of rards. 4 t approaches
Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. 16ZIVB Introduction to Ecology The subject inform about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular conindicators and sustainable development. 16UJRF2 Introductory Nuclear and Radiation Physics 2			f mechanics. The	subject is
The subject inform about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular con indicators and sustainable development. 16UJRF2 Introductory Nuclear and Radiation Physics 2				
	mponents of t	s of the enviror	KZ	2 ate economi
The aim of the course is to provide students with basic knowledge about atomic nucleus and radiation physics, which is followed by thematic areas: general properties of radioactive decay, alpha decay, proton radioactivity, beta decay, gamma emission, natural rad nuclear fission, transuranium elements, thermonuclear reaction.	-	-	-	
02VOAF Waves, Optics and Atomic Physics Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media.	Novo optioni		Z,ZK	6

16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, development, a	nd objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz	ations, energy tra	nsfer and
absorption. Fundament	als of the effects of ionizing radiation.		
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2	Z,ZK	4
Fundamentals of biolog	cal effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principl	es and methods c	of measurements
in dosimetry. Determina	tion of activity and neutron source emission. Measurements of absorbed dose and exposure.		
16ZRIZ	Health risks of ionizing radiation	ZK	2
The aim of the course is	to acquaint students with the radiobiological basics of radiation protection. The basis of the course is an introduction to the bic	logical effects of i	onizing radiation
(IR) at the molecular, ce	ellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its eval	uation, basics of	epidemiology.

Code of the group: BSPJIAFIZ3

Name of the group: BS P_JIB AFIZ 3rd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 11 courses Credits in the group: 0

Note on the group:

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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
17BPJI1	Bachelor Thesis 1 Tomáš Trojek, Dušan Kobylka, Jan Rataj Jan Rataj (Gar.)	Z	5	5ZP		PS
17BPJI2	Bachelor Thesis 2 Tomáš Trojek, 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
17JARE	Nuclear Reactors Tomáš Bílý Tomáš Bílý Tomáš Bílý (Gar.)	ZK	2	2	L	PS
01NME2	Numerical Methods 2 Michal Beneš Michal Beneš (Gar.)	KZ	2	2+0	L	PS
16OSE	Professional Seminar Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	3	0P+4C		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, Ji í H Ika, Ladislav Tomášek, Ji í Martin ík Tomáš Trojek Tomáš Trojek (Gar.)	ZK	4	4+0	Z	PS
01RMFB	Equations of Mathematical Physics B Václav Klika	Z,ZK	5	2P+2C		PS
16ZPRD	Elementary Labs Petr Pr ša, Pavel Novotný Petr Pr ša Pavel Novotný (Gar.)	KZ	3	3L		PS

Characteristics of the courses of this group of Study Plan: Code=BSPJIAFIZ3 Name=BS P_JIB AFIZ 3rd year

			r
17BPJI1	Bachelor Thesis 1	Z	5
Student on the basis of	theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject is g	iven by self-reliar	nt work on given
topic. The work is contin	nuously 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 g	iven by self-reliar	it work on given
topic. The work is contin	nuously check by a supervisor.		
16DETE	Detectors of Ionizing Radiation	ZK	4
Gas filled detectors (ion	ization chambers, proportional counters, Geiger-Müller counters, corona counters), organic and inorganic scintillation detector	s, Cherenkov cou	inters, evaluation
of light by photomultipli	er, parameters of PMT, semiconductor detectors, cryogenic detectors.		
17JARE	Nuclear Reactors	ZK	2
Introduction. World pow	er issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety sy	stems, containme	nt. Classification
of reactors into IV gene	rations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. F	ressurized water	reactors (PWR).
Western-type PWR (We	estinghouse, KWU, Framatom). VVER-type reactors, Temelín nuclear power plant. Boiling water reactors. Heavy water reactor	ors, fast breeder r	eactors,
high-temperature gas c	ooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF a	nd INPRO initiativ	es. Evaluation
and selection of propos	ed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in long-term ou	tlook	
01NME2	Numerical Methods 2	KZ	2
The course is devoted to	onumerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equation	ns. It explains me	thods converting
boundary-value probler	ns to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equ	ations.	
16OSE	Professional Seminar	Z	3
In the first part of the se	minar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal r	equirements for b	achelors degree
projects at the faculty. T	he second part is designed as a practical training for the defence of the bachelors degree project. The students give oral pre-	sentations of the	current state of
the research results ach	ieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the pos	sibilities of impro	ving the students
performance. Third part	of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing radiation, and r	adiation protectio	n with focus on
bachelor state final exa	ms. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries to help the s	tudents to accom	modate learned
knowledge form their st	udies in complex frame for application in practice.		

01PRST Probability and Statistics	Z,ZK	4
It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition a	nd continuing till t	ne Kolmogorov
definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit	theorems are sta	ted and proved.
On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explanation of the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explanation of the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explanation of the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explanation of the basic methods of the basic methods of the basic methods of the basic methods are explained.	plained.	
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 radiation	nuclide measurer	nents, use of
penetration and scattering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use	of ionizing radiat	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. T	he course is acce	pted as training,
which allows obtaining special competence in radiation protection and learner receives appropriate certificate.		
01RMFB Equations of Mathematical Physics B	Z,ZK	5
The subject of this course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integr	al transformations	s, and solution of
partial differential equations.		
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 spectrom	etry of ionizing rad	diation. 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

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:

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

Only one of these courses is obligatory.

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

00EKOT	Economy in Technology	Z	1
The course introduce	s the basics of micro- and macroeconomics.		
00ETV	Ethics of Science and Technology	Z	1
00RET	Rhetoric	Z	1
The course is focused	I 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 nonve	brbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	n 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
	English for Intermediate Students Examination Jana Ková ová, Slav na Brownová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV

04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová Darren Copeland (Gar.)	ZK	4	Z	PV
04XCESZZK	Czech for Foreigners Beginners - Examination Slav na Brownová Jana Ková ová Jana Ková ová (Gar.)	ZK	4	Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4	Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4	Z	PV
04XFMZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4	Z	PV
04XFPZK	French for Advanced Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4	Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3	L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4	Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4	Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4	Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4	Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3	L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3	L	PV

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

04XAMZK English for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two par	ts - written (100 m	nin) and oral
(20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English cou	rses.	
04XAPZK English for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability	to apply their know	wledge obtained
in the three AP courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from	the student's field	d of study.
04XCESZZK Czech for Foreigners Beginners - Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04	4XCESZ1,2,3 cou	irses and can
only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XCESMZK Czech for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESM1,2,3 course	s and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESP1,2,3 courses	s and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XFMZK French for Intermediate Students Examination	ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents	of FM1-FM3. The	e examination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.		
04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part	t and is organized	d according to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.		
04XFZZK French for Beginners Examination	ZK	3
The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination consisting of oral and written part.	mination is ruled b	by the document
Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNMZK German for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinati	on consisting of tv	vo parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assess	sment. More detai	led information
is to be obtained from the teacher.		
04XNPZK German for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examinatio	n consisting of tw	o parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrade	ed assessment. M	lore detailed
information is to be obtained from the teacher.		
04XRMZK Russian for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	/ledge and skills a	acquired in RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct	ions by the teach	er.
04XRPZK Russian for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	/ledge and skills a	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 instruction	ons by the teache	r

					71/	
	ussian for Beginners Examination examination as given by the study plan. The course is completed by taking a written and	oral examination	testing the		ZK and skills acqui	3 red in RZ1
-	of the oral examination only after a prior pass in RZ5 and a successful written examin	ation. Students ar	e given inst	ructions by		
	panish for Intermediate Students Examination examination as given by the study plan. XSMZK examination consists of two parts: writt	en and oral; to be	eligible for t	 he written p	ZK art, students wi	4 II have
	ssment for course XSM3. Oral examination follows the written part.				ZK	4
	panish for Advanced Students Examination examination as given by the study plan. Examination XSPZK consists of two parts, nam	ely oral and writte	n. The prere	1	1	•
	test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on a	an individual study	/ plan of the		71/	3
1	panish for Beginners Examination examination as given by the study plan. Examination consists of two parts - written and	oral. Student can	register for a		ZK ation only if he/	-
passed the written examination	ation test.					
Name of the blo	ck: Elective courses					
Minimal number	of credits of the block: 0					
The role of the b	lock: V					
Code of the grou	•					
•	up: BS P_JIB AFIZ Optional courses edits in the group:					
•	urses in the group:					
Credits in the gr						
Note on the grou	•					
	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their					
Code	members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.) Safe operation of nuclear facilities					
17BPROV	Lenka Frýbortová, ubomír Sklenka Lenka Frýbortová Lenka Frýbortová (Gar.)	KZ	2	2P		V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V
16EPAM	Exact Methods in Research of Historic Monuments Ladislav Musílek Ladislav Musílek Ladislav Musílek (Gar.)	ZK	2	2+0	Z	V
17ENEF	Experimental Neutron Physics Jan Rataj Jan Rataj Jan Rataj (Gar.)	КZ	3	1P+2L	L	V
16KPR	Clinical Propaedeutic Jana Votrubová Jana Votrubová (Gar.)	ZK	2	2+0	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
00MAM1	Essentials of High School Course 1 David B e	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	V
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
16PADR	Practical Analysis of Data and Risks Kate ina Pila ová, Václav Št pán Václav Št pán Václav Št pán (Gar.)	KZ	4	1P+3C	Z	V
16PNZ	Problems of Non-ionizing Radiation Kamil Augsten Kamil Augsten Lenka Thinová (Gar.)	KZ	2	2P+0C	Z	V
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	КZ	4	2+2	L	V
18PMTL	Programming in MATLAB Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	КZ	4	4C	z	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
16RAZP	Radioactivity in the Environment Lenka Thinová Lenka Thinová Lenka Thinová (Gar.)	Z,ZK	3	2P+1C	2	V
01STME	Statistical Methods with Applications Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	ZK	2	2P+0C		V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V

TV-4	Physical education	Z	1	0+2	L	V
02UFEC	Introduction to Elementary Particle Physics Marek Matas, Jaroslav Biel ík Jaroslav Biel ík Jaroslav Biel ík (Gar.)	Z	2	2+0	Z	V
17UING	Introduction to Engineering Jan Frýbort, Petr Haušild, Radek Mušálek Jan Frýbort Jan Frýbort (Gar.)	КZ	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 Tomáš Trojek, Lenka Thinová Lenka Thinová Lenka Thinová (Gar.)	Z,ZK	4	3P+1C	L	v
16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1 Alena Doubková, Šimon Vaculín, Zde ka Polívková, Josef Stingl Alena Doubková Alena Doubková (Gar.)	Z,ZK	4	2+2	Z	v
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2 Alena Doubková, Šimon Vaculín, Josef Stingl Alena Doubková Alena	Z,ZK	4	2+2	L	v
12ZEL1	Doubková (Gar.) Basic Electronics 1 Investor Parel Investor Parel (Car.)	Z,ZK	3	2+1	Z	v
12ZEL2	Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.) Basic Electronics 2	Z,ZK	3	2+1	L	v
16ZONK	Jaroslav Pavel Jaroslav Pavel Jaroslav Pavel (Gar.) Basics of Oncology Anna Jelínek Michaelidesová Anna Jelínek Michaelidesová Anna Jelínek	Z	2	2P+0C	L	V
16ZPSP	Michaelidesová (Gar.) Basic Work with PC	Z	2	0+2	1	v
16ZRAO	Kamil Augsten Kamil Augsten (Gar.) Basics of Radiation Protection	Z	2	2+0	· ·	V
16ZOZ	Aneta Smejkalová Aneta Smejkalová Aneta Smejkalová (Gar.) Sources of Irradiation and Environment Ladislav Musílek, Ond ej Ko istka, Václav Št pán, Lenka Thinová, Tomáš	КZ	4	2P+2C	L	v
	Urban, Tomáš echák Václav Št pán Václav Št pán (Gar.)				_	
17BPROV Sa	e courses of this group of Study Plan: Code=BSPJIAFIZV Name afe operation of nuclear facilities familiarize students with basic principles of nuclear safety.	=BS P_JIB A	AFIZ Opt	1	i rses KZ	2
and relativistic physics, Plar standard model. The concep 16EPAM Ex Aims and methods of historic	ectrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its lack and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford of Nature and Universe of today. Exact Methods in Research of Historic Monuments monument investigations, methods of age determination (radiocarbon, thermoluminescence) cal methods for determination of origin and production technologies of artefacts (activa	rd and Bohr. The	way to nucle	ear energy, I	Elementary ZK nethods, de	y particles, 2 endrochronolog
photogrammetry.						
The course is focused on ex- bases necessary for prepara description of neutron proper transport in substances, pro- detection, measurement of d	perimental Neutron Physics perimental methods and experiments in the field of neutron physics, mainly using radio ation and realization of the laboratory exercises and to the methods of experimental data rties and their utilization, the characteristics of neutron sources, properties of prompt an duction, formation and modification of neutron fields and neutron beams. The lectures a delayed neutrons, study of neutron transport in various substances, experiments with v f photo-neutron source, calibration of the radionuclide neutron source. The experiments	processing and e ad delayed neutron are complemented arious neutron sc	valuation. S ns, selected d by the lab ources (2520	e lectures are pecifically, th methods of pratory exer Cf, AmBe, D	ne lectures neutron de cises in the -D neutror	provide detailed etection, neutror e field of neutror n generator),
16KPR Cli	inical Propaedeutic				ZK	2
04AKS En	h the basics of anamnesis, physical examination, examinational methods of different org nglish Conversation student´s communication skills acquired throughout their previous studies. It aims to im				Z	1
their vocabulary for various	communication situations and will master their communication strategy. They will also p will be trained to express their ideas clearly and according to current English usage, an	practise their lister	ning skills ir	order to be		
	sentials of High School Course 1 nathematical concepts and methods used in the introductory physics course.				Z	1
	sentials of High School Math Course 2				Z	1
15CH1 Ge	eneral Chemistry 1	try I. Thoir signific	anco and p	ractical use	Z	3
solved in exercises.	ts, quantities and units used in chemistry are introduced in the course General Chemist	ayı. men sıgnınc	ance anu p			
The subject is the continuation the validity of these principle	eneral Chemistry 2 ion of the course General chemistry I. The main attention is paid to general principles g as is not restricted only to chemical processes is documented. The significance and pra	-	-	. Using vari	-	
The aim of the course is to p	actical Analysis of Data and Risks provide students with a summary of basic theoretical knowledge, especially in the field s practical application of theoretical procedures, especially data analysis using availabl ata and risks.			iseful for dat		-

16PNZ	Problems of Non-ionizing Radiation	KZ	2
	iological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and me		ds of magnetic
resonance and ultrasou	nd as applied in various types of technical or medical equipment are given as well.		
18PRC1	Programming in C++ 1	Z	4
This course covers mai	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.	
18PMTL	Programming in MATLAB	KZ	4
Introducing Matlab envi	ronment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic an	alysis, statistics, a	algorithmization
and geometric represer	tation of results.		
01PSL	LaTeX - Publication Instrument	Z	2
The course is devoted t	o the basics and facilities of computer typography, particularly to the system LaTeX		
16RAZP	Radioactivity in the Environment	Z,ZK	3
The course provides a	comprehensive view of the source of ionizing radiation occurring in the environment.		
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
	m 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
02UFEC	Introduction to Elementary Particle Physics	Z	2
	easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject	. – .	_
17UING	Introduction to Engineering	KZ	3
	troduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and be	1	-
	assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be included.	,,	5
12UNXAP	Introduction to UNIX	Z	2
-	g systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	1 1	
	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working		
	shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard	-	
X-windows. Computer r	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 Intr	, oduction to scientific computing. Constituent part of the course is realized in computer classroom.Students get acquinted wit	h some basic tools	s fort scientific
and technicval computi	ng, data analysis, data visualisation and algorithm development.		
and technicval computine 16UVJZ		Z,ZK	4
16UVJZ	ng, data analysis, data visualisation and algorithm development.	Z,ZK	4
16UVJZ The course aims to fam of the decommissioning	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the	Z,ZK e of the preparation environment again	4 n and realization
16UVJZ The course aims to fam of the decommissioning	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities illarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course	Z,ZK e of the preparation environment again	4 n and realization
16UVJZ The course aims to fam of the decommissioning	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the	Z,ZK e of the preparation environment again	4 n and realization
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 vstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell of	4 n and realization nst radiation and 4 sycle, mitosis,
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell of	4 n and realization nst radiation and 4 sycle, mitosis,
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General	Introduction to Decommissioning of Nuclear Facilities iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract.	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog	4 n and realization nst radiation and 4 sycle, mitosis,
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. Genera system and physiology 16ZBAF2	Introduction to Decommissioning of Nuclear Facilities Introduction to Decommissioning of Nuclear Facilities Illiarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecula I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. Genera system and physiology 16ZBAF2 Heart and physiology o	Introduction to Decommissioning of Nuclear Facilities Introduction to Decommissioning of Nuclear Facilities Illiarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecula I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood vessels, main arteries of the body, overview of veins and physiology of blood vessels, main arteries of the body, overview of veins and physiology of blood ves	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog Z,ZK od clotting. Overv	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. Genera system and physiology 16ZBAF2 Heart and physiology of CNS. Visual system and	Introduction to Decommissioning of Nuclear Facilities Introduction to Decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog Z,ZK od clotting. Overv ands.	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves.
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology 16ZBAF2 Heart and physiology o CNS. Visual system and 12ZEL1	Introduction to Decommissioning of Nuclear Facilities Introduction to Decommissioning of Nuclear Facilities Illiarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo d physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog Z,ZK od clotting. Overv ands. Z,ZK	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology 16ZBAF2 Heart and physiology o CNS. Visual system and 12ZEL1 The subject provides pro-	Introduction to Decommissioning of Nuclear Facilities Introduction to Decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo d physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1 imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circ	Z,ZK e of the preparation environment again nitoring systems. Z,ZK lar genetics. Cell c m and its physiolog Z,ZK vod clotting. Overvands. Z,ZK rcuit analysis meth	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3 nods for linear
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16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology of CNS. Visual system and 12ZEL1 The subject provides pr circuits include symboli 12ZEL2 The subject follows up 16ZONK 1.Basics of cell biology TP53, RAS 4.From mut circulating tumour cells overview of best known 16ZPSP The aim of the course is resources available at t software) with exercises specific practice (hospit home exercises and pa 16ZRAO The aim of the course is orientation in this field.	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities liarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual courses project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of mol Fundamentals of Human Biology, Anatomy and Physiology 1 stems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive syster of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1 mary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effe Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic Basics of Oncology and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the t a to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is d to a caquaint students with the basic skills related to working on a personal computer. The introductory part of the course is d to C1 in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivit	Z,ZK e of the preparation environment again initoring systems. Z,ZK lar genetics. Cell of m and its physiology Z,ZK iod clotting. Overvit inds. Z,ZK iod clotting. Overvit inds. Z,ZK iod clotting. Overvit inds. Z,ZK themes of logical Z post known mutation necrosis 6.Cance umour markers 9.1 Z evoted to information itor, spreadsheet apor's and diplomating or's and diplomating g concepts, in order wit is dangerous for the standard	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3 nods for linear rcuits. 3 circuits field. 2 ons - BRCA1/2, r stem cells, Diagnostics an 2 ion systems and and presentation neses) and in n of independent 2 er to allow critical or people, what
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology of CNS. Visual system and 12ZEL1 The subject provides pr circuits include symboli 12ZEL2 The subject follows up 16ZONK 1.Basics of cell biology TP53, RAS 4.From mut circulating tumour cells overview of best known 16ZPSP The aim of the course is resources available at t software) with exercises specific practice (hospit home exercises and pa 16ZRAO The aim of the course is orientation in this field.	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities lilarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 stems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo t physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1 imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circ and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effe Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic Basic Sof Oncology and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the course is and metastatic behaviour of tumours 7.Tumour types and their classification (TNM, Gleason) 8.Tumour histology, biopsies, tu methods 10.Cancer treatment and its success rate Basic Work with PC to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is dire CTU in Prague and the FNSP	Z,ZK e of the preparation environment again initoring systems. Z,ZK lar genetics. Cell of m and its physiology Z,ZK iod clotting. Overvit inds. Z,ZK iod clotting. Overvit inds. Z,ZK iod clotting. Overvit inds. Z,ZK themes of logical Z post known mutation necrosis 6.Cance umour markers 9.1 Z evoted to information itor, spreadsheet apor's and diplomating or's and diplomating g concepts, in order wit is dangerous for the standard	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3 nods for linear rcuits. 3 circuits field. 2 ons - BRCA1/2, r stem cells, Diagnostics an 2 ion systems and and presentation neses) and in n of independent 2 er to allow critical or people, what
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology 16ZBAF2 Heart and physiology o CNS. Visual system and 12ZEL1 The subject provides pr circuits include symboli 12ZEL2 The subject follows up of 16ZONK 1.Basics of cell biology TP53, RAS 4.From mut circulating tumour cells overview of best known 16ZPSP The aim of the course is resources available at t software) with exercises specific practice (hospit home exercises and pa 16ZRAO The aim of the course is orientation in this field. is the meaning of prote 16ZOZ	ng, data analysis, data visualisation and algorithm development. Introduction to Decommissioning of Nuclear Facilities Iliarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of more Fundamentals of Human Biology, Anatomy and Physiology 1 stems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive syster of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1 imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Ci c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effe Basic Electronics 2 with the Basic Electronics 1 imary knowledge of circuit theory concegenes, anti-oncogenes 5. Tumour microenvironment - hypoxia, angiogenesis a and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the ta and metastatic behaviour of tumours 7. Tumour types and their classification (TNM, Gleason) 8. Tumour histology, biopsies, tu methods 10. Cancer treatment and its success rate Basic Work with PC to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is d to eCTU	Z,ZK a of the preparation environment again initoring systems. Z,ZK lar genetics. Cell of m and its physiology Z,ZK iod clotting. Overvite inds. Z,ZK iod clotting. Overvite inds. Z,ZK iod clotting. Overvite inds. Z,ZK themes of logical Z poest known mutation necrosis 6.Cance umour markers 9.1 Z evoted to informat itor, spreadsheet a or's and diplomat the eurity. Completion Z d concepts, in order wit is dangerous field any prior knowle KZ	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3 nods for linear rcuits. 3 circuits field. 2 ons - BRCA1/2, r stem cells, Diagnostics an 2 ion systems and and presentation neses) and in n of independent 2 er to allow critical or people, what dge. 4
16UVJZ The course aims to fam of the decommissioning waste management in t 16ZBAF1 Organization of living sy their regulation. General system and physiology 16ZBAF2 Heart and physiology of CNS. Visual system and 12ZEL1 The subject provides pr circuits include symboli 12ZEL2 The subject follows up of 16ZONK 1.Basics of cell biology TP53, RAS 4.From mut circulating tumour cells overview of best known 16ZPSP The aim of the course is resources available at t software) with exercises specific practice (hospit home exercises and pa 16ZRAO The aim of the course is orientation in this field. is the meaning of prote 16ZOZ The subject provides ar about ionizing radiation	Introduction to Decommissioning of Nuclear Facilities Illarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course project. It includes implementation of site decommissioning including legislative requirements to protect employees and the heir categorization, transport, release to the environment and disposal. It deals with documentation and centralization of mor Fundamentals of Human Biology, Anatomy and Physiology 1 rstems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul I human nantomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive syster of respiration. Excretory and genital tract. Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla Basic Electronics 1 mary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cli c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effe Basic Electronics 2 with the Basic Electronics 2. Sumon differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the ts a orquingt students with the Dasic skills related to working on a personal computer. The introductory part of the course is d the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text ed is in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bachele als, state administration, companies). Other sections summarize basic information about computer hardware, software, and s ricipation in exercises	Z,ZK a of the preparation environment again initoring systems. Z,ZK lar genetics. Cell of m and its physiology Z,ZK iod clotting. Overvite inds. Z,ZK iod clotting. Overvite inds. Z,ZK iod clotting. Overvite inds. Z,ZK themes of logical Z post known mutation necrosis 6.Cance umour markers 9.1 Z evoted to informat itor, spreadsheet a or's and diplomat the eurity. Completion Z d concepts, in order wit is dangerous field any prior knowle KZ t to acquire the ba	4 n and realization nst radiation and 4 cycle, mitosis, gy. Respiratory 4 iew of nerves. 3 nods for linear rcuits. 3 circuits field. 2 ons - BRCA1/2, r stem cells, Diagnostics an 2 ion systems and and presentation neses) and in n of independent 2 er to allow critical or people, what dge. 4 sic knowledge

Code of the group: BSPJAZYKYZAP Name of the group: BS P jazyky zap Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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

	Cormon for Advanced Students P2					1
04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	v
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	v
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	v
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	v
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	v
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	v
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	v
04XSP1	Spanish for Advanced Students P1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	v
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	v
04XSZ4	Spanish for Beginners Z4 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
Characteristics of the	e courses of this group of Study Plan: Code=BSPJAZYKYZA	P Name=BS P	iazvky za	n		
	nglish for Intermediate Students M1		<u>,,.,</u>	- P	Z	2
	students who have successfully completed the full secondary school English langua					
	s (CEFR). It provides an introduction into English for Specific and Academic Purpos				-	
	n communication situations. Thus it covers topics related to the student's life and ne grammar issues used in EAP.	eas as well as topics	s of subtech	nical interest	. Attention is	aiso paid to
	nglish for Intermediate Students M2				Z	2
-	e student to have completed the AM1 course. It develops their skills for work with su	ubtechnical texts, foc	using also n	nore on spec	- 1	_
	SP and EAP (e.g., definition, existence and classification of phenomena, object desc		-		-	
revision is included.						
	nglish for Intermediate Students M3				Z	2
	ills that enable students to cope with features typical of professional style. Increasing				-	-
	hal texts. Great emphasis is placed on distinguishing different levels of formal and in					
equivalents. The course also student's field.	o includes studying abstracts and rules for writing them as well as basic rules for pro	eparing and giving a	snort prese	ntation on a	cnosen topic	related to the

04XAP1 English for Advanced Students P1

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

Ζ

2

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

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

	Franch for Design and 70		
04XFZ2	French for Beginners Z2	Z	2
	with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		
French for Beginners .	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem	ent - disagreemer	nt, apology,
thanking, travelling, ma	p of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	nunication. Specific	c topics covered:
How does the machine	work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3	French for Beginners Z3	Z	2
	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F	Pravdová: French	for Beginners.
	tuations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for ir		-
-	Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4	French for Beginners Z4	Z	2
-		I – I	_
	n FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The or xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the leveloped from the levelope		
			۰ v
	ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	pping, weather, ur	niversity in our
	how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
04XFZ5	French for Beginners Z5	Z	2
All four skills acquired i	n FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The	ey present it orally	in the class. The
general contents is cov	ered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.	Topics: on physics	s from lecture
notes, success of Fren	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl	auses, typical con	ijunctions,
subjunctive clauses, ge	rund, passive.		
04XNM2	German for Intermediate Students M2	Z	2
	ther more complex grammatical structures and their application in communication based on technical texts, such as the relatio	n between techno	logy and society.
	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
-	mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system		
•	or professional discourse (participles, relative clauses).		anor grannatioal
		7	
04XNM1	German for Intermediate Students M1	Z	2
	Irse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena an		
	es (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repul		
environmental issues to	ogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis	ts, and the fundan	nentals of IT
terminology. It develops	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.		
04XNM3	German for Intermediate Students M3	Z	2
The course introduces	ther more complex grammatical structures and their application in communication based on technical texts, such as the relatio	n between techno	logy and society,
the world at the beginn	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	d car technology e	tc. Students
-	mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course syster		
	or professional discourse (participles, relative clauses).		Ũ
04XNP1	German for Advanced Students P1	Z	2
	od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le	I – I	
I This course requires go			
course. The course is t			
	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for	detail). It revises	and develops
more difficult grammar		detail). It revises	and develops
more difficult grammar s i.e., telephoning.	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	detail). It revises practical everyday	and develops communication,
more difficult grammars i.e., telephoning. 04XNP2	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on German for Advanced Students P2	detail). It revises practical everyday	and develops communication, 2
more difficult grammars i.e., telephoning. 04XNP2	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	detail). It revises practical everyday	and develops communication, 2
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more difficult grammars i.e., telephoning. 04XNP2 The course develops th vocabulary range. It intr	hen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on German for Advanced Students P2 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	r detail). It revises practical everyday Z ding their general a	and develops communication, 2 and subtechnical
more difficult grammars i.e., telephoning. 04XNP2 The course develops th vocabulary range. It intr both written and oral (0 04XNP3	hen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on German for Advanced Students P2 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 V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). German for Advanced Students P3	r detail). It revises practical everyday Z ding their general a d practising formal Z	and develops communication, 2 and subtechnical communication, 2
more difficult grammars i.e., telephoning. 04XNP2 The course develops th vocabulary range. It intr both written and oral (C 04XNP3 The course consists of	hen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on German for Advanced Students P2 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 V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	r detail). It revises practical everyday Z ding their general a d practising formal Z ariety of less comr	and develops communication, 2 and subtechnical communication, 2 mon situations
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04XRZ1 Russian for Beginners Z1	Z	2
The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus	-	-
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	king). Students wil	be able to read
a short text with marked stress, understand its contents and summarize it.	7	2
04XRZ2 Russian for Beginners Z2	Z	2 Students will be
The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short s able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will		
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		vocabulary and
04XRZ3 Russian for Beginners Z3	Z	2
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for trai		
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		
understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.		
04XRZ4 Russian for Beginners Z4	Z	2
The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with		
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver		-
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),		-
communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e	.g., Siberia), learn	how to fill in
forms, look up the information from the timetable, learn about Russian holidays and typical meals.		
04XRZ5 Russian for Beginners Z5	Z	2
The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understa	, nding, extracting a	ind summarizing
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C	ommunication ski	Is are trained on
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication	on (verbal adjectiv	es, participles,
passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite require	est, etc.)	
04XSM1 Spanish for Intermediate Students M1	Z	2
The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semi	ester course deve	ops standard
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega	ative form of the in	nperative, and
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts of	or listening to then	1.
04XSM2 Spanish for Intermediate Students M3	Z	2
The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for	specific purposes	in order to be
able to work with specialized texts on the Internet.		
04XSM3 Spanish for Intermediate Students M3	Z	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acad	lemic style. They w	vill be competent
enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write a	short articles and	summaries. The
final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
04XSP1 Spanish for Advanced Students P1	Z	2
Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communicat	ion. Course prere	quisites: level B2
of CEFR.	-	2
04XSP2 Spanish for Advanced Students P2	Z	2
Course XSP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and s	yntax and focuses	on independent
written communication.	7	0
04XSP3 Spanish for Advanced Students P3	Z	2
Course XSP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is based on what students will need in their career	focused on writter	communication
based on what students will need in their career.	7	2
04XSZ1 Spanish for Beginners Z1	Z	2
Course XSZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and func will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spani	-	
04XSZ2 Spanish for Beginners Students Z2	Z	2
Course XSZ2 is based on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrie		
Republic. Realia of Spanish-speaking countries are also included.	s and others such	as the Czech
04XSZ3 Spanish for Beginners Z3	Z	2
This course builds upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include	1	
and cultural context of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, includ		
indefinido, pretérito imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topic		
through targeted reading and listening activities.		
04XSZ4 Spanish for Beginners Z4	Z	2
The course is based on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spa	-	
Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of		-
to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.	, , u	
04XSZ5 Spanish for Beginners Z5	Z	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanis	-	
part, the general Spanish course based on the course book will end with a written and oral examination.	· · · · · · · · · · · · · · · · · · ·	

List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology The course introduces the basics of micro- and macroeconomics.	Z	1
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	 Z	1
00MAM2	Students are introduced to mathematical concepts and methods used in the introductory physics course. 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
	sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an		
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
1	uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional	1 '	-
of set, completeness series and their cor 01ANB4 [1] Diferenciální po prom nných, nek	 al equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated an s of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Four nergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equation Calculus B 4 et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicit . [3] Taylorovy ady funkce více prom nných. [4] artézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstinkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu 	ier series, trigonom derivatives and tan s. Z,ZK Regulární zobrazer rukce Lebesgueov	etric Fourie gent plane, 6 ní, zám na y míry. [7]
<u> </u>	derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.	ieova v ta. Limita, s	
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2. 01LAL2	Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of theorem. Linear Algebra 2	Inear mappings. 7.	Frobenius
of determinants.	onality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse mat 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonal complements. 6. Geometry exercises and examples. 7. Adjoint operators.	ty. Calculation of or	rthogonal
01LALZ	Linear Algebra 1, exam	ZK	2
01MAN	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).	Z	4
Real and complex po	Calculus 2 lifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	rals: primitives, def	0
01MANZ	Calculus 1, exam	ZK	4
	Numerical Methods 2 ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations ary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial diffe		2 s converting
01PRST It is a basic course definition. The notio On the	Probability and Statistics of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and ns as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis test	Z,ZK continuing till the k eorems are stated a ing are explained.	and proved.
01PSL	LaTeX - Publication Instrument The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	Z	2
01RMFB	Equations of Mathematical Physics B course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral t	Z,ZK	5
	partial differential equations.	1	
their applica	Statistical Methods with Applications s of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric me ation. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical softwork of Devoice 1	vare are also includ	led.
-	History of Physics 1 ce in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural phil Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, as experimental science. Newton and his work.	-	-

02DEF2	History of Physics 2	Z	2
	of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach.		
-	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		
and relativistic p	ohysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er	nergy, Elementary	particles,
	standard model. The concept of Nature and Universe of today.		
02ELMA	Electricity and Magnetism	Z,ZK	6
	oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond		-
	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves,		
02MECH	Mechanics	<u> </u>	4
	hysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so		
	motion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.	particle collisions.	MECHANICS
02MECHZ	Mechanics - Examination	ZK	2
UZIVIECI IZ	The content of the subject is the examination according to the plan of studies.		
02TEF1	Theoretical Physics 1	Z,ZK	4
	troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms		· · ·
	dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar		
	ion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles		
	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		,
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		nd real gas,
entropy; non-chem	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis	tribution,equipartiti	ion theorem.
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
Foundation of them	modynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatel	ier principle. Statis	tical entropy.
Basics of many bo	dy description from a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical	ensemble, Fermi	gas, models
	of crystals and the black body radiation). The Boltzmann equation is usedto discusses simple transport phenomena.		
02UFEC	Introduction to Elementary Particle Physics	Z	2
	rese provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su	ubject are presente	ed.
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		
conerence. Geo	metrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro	oglie waves,the Sc	nroainger
007144	equation, stationary states and spectra of finite systems.	71/	
02ZM1	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of	ZK	2
	The goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat	-	Sidueniis or
		a on a PC: Studen	ts learn the
		a on a PC. Studen	ts learn the
	basic habits of work in a physics lab.		ts learn the
02ZM2		KZ	4
02ZM2 The lecture is desi	basic habits of work in a physics lab. Foundations of Physical Measurements 2	KZ	4 v students of
02ZM2 The lecture is desi	basic habits of work in a physics lab. Foundations of Physical Measurements 2 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of	KZ	4 v students of
02ZM2 The lecture is desi other branches. T 04AKS	basic habits of work in a physics lab. Foundations of Physical Measurements 2 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of the goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab. English Conversation	KZ can be attended by a on a PC. Studen	4 v students of ts learn the 1
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02ZM2 The lecture is desi other branches. T 04AKS The course will de their vocabulary fo	basic habits of work in a physics lab. Foundations of Physical Measurements 2 igned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it of the goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired dat basic habits of work in a physics lab. English Conversation evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communicator or various communication situations and will master their communication strategy. They will also practise their listening skills in order the	KZ can be attended by a on a PC. Studen Z tion. The student o o better follow and	4 v students of ts learn the 1 will develop
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The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and

	paragraph structure, 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 inc	-	
	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal langu communication.	, · · ·	
04XAPZK	English for Advanced Students Examination	ZK	4
	is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a		-
	courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from t		
04XCESM1 The course is focus	Czech for Foreigners - Intermediate 1 ed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the st social situations.	Z udent´s vocabulary	2 / for various
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readin in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		the student
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
	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.		istics and
04XCESMZK		ZK	4
	the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESI be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	г 	
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
It is focused partly	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of science and style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S includes communication with teachers and faculty administrators.	ence. Students are	taught the
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and s emphasis on individual work.	specialist texts plac	cing greater
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
The course develop	bs the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	and, finally, present	ation of the
	student's project. Writing skills necessary for professional communication are trained.	71/	4
04XCESPZK	Czech for Foreign Students - Advanced Examination		4 d can only
The course come	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	1 1,2,3 courses an	d can only
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and gr	ammar features) a	ind they will
acquire basic langu	age and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication i situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	in the most commo	on everyday
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
	communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and con basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	jugation system ar	
	Czech for Foreigners - Beginners 3 er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on t inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce		
frequent types of d	alogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly 1.	lessons 5-7 in es	stina expres
04XCESZZK		ZK	4
The course conte	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	CESZ1,2,3 course	s and can
	only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XFM1 French - intermedia	French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both w	Z ritten and oral forr	2 n Students
	mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trai		
information and to	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	mizes and expand	s language
	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, person	-	
	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo		
04XFM2	French for Intermediate Students M2	Z Footures typical f	2
	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text: iguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scier		
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		,,,
04XFM3	French for Intermediate Students M3	Z	2
The course is focus	ed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub		
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class		
	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work o's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesic	-	nch articles
04XFMZK	French for Intermediate Students Examination	ZK	4
	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents of	FM1-FM3. The ex	
04XFP1	consists of a written and oral part and is organized according to Examination Instructions, a document available on the web French for Advanced Students P1	Z	2
	se The objective of this three-semester course is to improve and further develop communication in the French language in both writte	1	
	icate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general		

to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are reper passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of internet, physics, chemistry, Reading of technical and popular science tects, further work with these texts and internet	tters, CV, personal of specialization: m	l statement,
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation	ι. Ζ	2
04XFP2 French for Advanced Students P2 With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on given by the course further develops language skills.		1
technical and scientific communication are stressed (passive voice, nominalization, word formation).	iven topics. I catal	
04XFP3 French for Advanded Students P3	Z	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng		1
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover		-
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a	-	ccording to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra	_	
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 soci		
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Prav		
(Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions, pe		-
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu		-
04XFZ2 French for Beginners Z2	Z	2
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the	textbook: Pravda -	
French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme	ent - disagreement,	apology,
thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic	cation. Specific top	ics covered:
How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3 French for Beginners Z3	Z	2
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra		0
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info	ormation and loud	as part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.	_	
04XFZ4 French for Beginners Z4	Z	2
The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp		
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, 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. They pr	esent it orally in th	1
All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	-	e class. The
	pics: on physics fro	e class. The
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	pics: on physics fro	e class. The
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla	pics: on physics fro	e class. The
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04XNP3	German for Advanced Students P3	Z	2
The course consis	, sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vari	ety of less common	situations
(traffic problems a	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	abulary range in fiel	ds such as
-	gineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
students are trained	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The or practice to and from German.	ourse also includes	translation
04XNPZK	German for Advanced Students Examination	ZK	4
The course conten	t is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c	onsisting of two pa	rts - written
and oral, which o	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded information is to be obtained from the teacher.	d assessment. More	e detailed
04XRM1	Russian for Intermediate Students M1	Z	2
	and for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet	I I	
•	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		
=	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement		-
	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetal	ole.	
04XRM2	Russian for Intermediate Students M2	Z	2
-	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	e timetable.	
04XRM3	Russian for Intermediate Students M3	Z	2
The course develop	os the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, how	ever, for half of the t	ime allotted
	in the timetable.		
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	ructions by the tead	
04XRP1	Russian for Advanced Students P1	Z	2
The entrance req	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice of the course is revision of standard language structures.	ticing more difficult	grammar
	structures, understanding the fundamentals of technical language and training writing skills.		
04XRP2	Russian for Advanced Students P2	Z	2
The course is bas	ed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	erb aspects, specific	c syntactic
0.4X/D D0	structures). Stress is put on independent oral and written communication.	7	
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 paraphrasin		
	od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and w	-	-
	chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc		
	technical topics.	, ,	
04XRPZK	Russian for Advanced Students Examination	ZK	4
-	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	I I	red in RP1
- RP3. Stud	ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	ructions by the tead	her.
04XRZ1	Russian for Beginners Z1	Z	2
The course represe	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	. Thus it begins with	n mastering
the Russian alphal	bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be a	able to read
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
	ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte		
able to communica	te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als		abulary and
042070	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		2
	d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		•
and noterinity/ dif	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		
from Czech, mo	dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a	and practice oral an	d written
communication c	n more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g	., Siberia), learn ho	w to fill in
	forms, look up the information from the timetable, learn about Russian holidays and typical meals.		
04XRZ5	Russian for Beginners Z5	Z	2
The course expects	s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandir	ng, 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,
	ve voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po		~
04XRZZK	Russian for Beginners Examination	ZK	3 rod in P71
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled lents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr		
		Z	2
04XSM1	Spanish for Intermediate Students M1 signed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semes	I I	
	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	Z	2
	pps the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	I – I	
	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	ic style. They will be	e competent
	Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write sho		
	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex	amination.	
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
	tent is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the wr	1 1	
	obtained non-graded assessment for course XSM3. Oral examination follows the written part.		Will Have
04XSP1	Spanish for Advanced Students P1	Z	2
	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.		1
Course concentrat	of CEFR.	Course prerequisi	IES. IEVEI DZ
		7	0
04XSP2	Spanish for Advanced Students P2	Z	2
Course XSP2 is the	e second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta	ix and focuses on i	ndependent
	written communication.	. <u></u>	
04XSP3	Spanish for Advanced Students P3	Z	2
Course XSP3 is the	e final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	used on written con	nmunication
	based on what students will need in their career.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course conte	ent is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite	e for admission to c	bral part is
havi	ing passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plar	n of the student.	-
04XSZ1	Spanish for Beginners Z1	7	2
	e first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	. – .	1
	to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa	-	
			· · · · · · · · · · · · · · · · · · ·
04XSZ2	Spanish for Beginners Students Z2		2
	ased on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and		
enable them to ur	nderstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a	ind others such as	the Czech
	Republic. Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
This course builds	s upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include	s an introduction to	o the realia
and cultural contex	tt of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including	the pretérito perfec	to, pretérito
indefinido, pretérit	o imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics.	Students are prepa	ared for this
	through targeted reading and listening activities.		
04XSZ4	Spanish for Beginners Z4	Z	2
	ed on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countrie	s, mainly of
	ntion to further grammar topics (perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the		
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listeni		,,,,
04XSZ5	Spanish for Beginners Z5	7	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for		-
The course books		i specific purposes	s. In its linal
	part, the general Spanish course based on the course book will end with a written and oral examination.		-
04XSZZK	Spanish for Beginners Examination	ZK	3
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if h	e/she has
	passed the written examination test.		
12ANM	Applied Numerical Methods	KZ	4
For English versi	on use code 12YNME1. There are explained the basic principles of numerical mathematics important for numerical solving of probler	ns important for ph	nysics and
technology. Metl	hods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are included in addition to th	e basic numerical	methods.
Integrated comp	putational environment MATLAB is used as a demonstration tool. The seminars are held in computer laboratory and PASCAL is used	as a principle prog	ramming
	language and MATLAB is also used.		
12UNXAP	Introduction to UNIX	Z	2
	poperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa		1
	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi		
	reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to		
	mputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a c	-	
	hardware sharing, mail, scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
	ed Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s		
407514	and technicval computing, data analysis, data visualisation and algorithm development.		-
12ZEL1	Basic Electronics 1	Z,ZK	3
	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	-	
circuits includ	le symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	ects inside linear c	ircuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follo	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic the	emes of logical cir	cuits field.
15CH1	General Chemistry 1	Z	3
	It concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	use are illustrated t	y examples
	solved in exercises.		
15CH2	General Chemistry 2	Z,ZK	3
	continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using		-
-	e principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	-	
	in exercises.		.pioo 301veu
		71/	4
16DETE	Detectors of Ionizing Radiation		-
Gas med detectors	s (ionization chambers, proportional counters, Geiger-Müller counters, corona counters), organic and inorganic scintillation detectors, C	merenkov counters	s, evaluation
	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors.		

			-r
16EPAM	Exact Methods in Research of Historic Monuments	ZK	2
	of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiati		
archaeomagneti	sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a	nalysis and other	methods),
401/00	photogrammetry.	71/	
16KPR	Clinical Propaedeutic	ZK	2
-	miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical	_	1
16OSE	Professional Seminar	Z	3
-	he 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 bachelors degree project. The students give oral preser		
	s achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possib		
	d part of the seminar deals with topical questions on nuclear and radiation physics, dosimetry, detectors of ionizing radiation, and rad		
Dachelor State III a	I exams. Ph.D. students and academic staff lead this topical discussion with students about given questions and tries to help the stud knowledge form their studies in complex frame for application in practice.		
		KZ	4
16PADR	Practical Analysis of Data and Risks	1	
	urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, useful for e course is practical application of theoretical procedures, especially data analysis using available software solution. Students will lea		-
main content of th	analysis and evaluation of data and risks.	an to periorn con	Inprenensive
16PNZ		KZ	2
	Problems of Non-ionizing Radiation	1	1
Subject is locused	I on biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and methor resonance and ultrasound as applied in various types of technical or medical equipment are given as well.	Jas usea in lielas	or magnetic
40005		7	
16PSE	Topical Dosimetry Seminar	Z	2
	pposed to motivate the students interest in the field of dosimetry and provide basic information about different applications of ionizing ra- The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or in various organization		
	II, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar		
	students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t		
-			1
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 one which allows obtaining appaint approaches in radiation protection and learner receives appropriate partificate.	course is accepted	u as training,
400470	which allows obtaining special competence in radiation protection and learner receives appropriate certificate.	7 71/	0
16RAZP	Radioactivity in the Environment	Z,ZK	3
	The course provides a comprehensive view of the source of ionizing radiation occurring in the environment.		
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 radionu		
-	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
	rse is to provide students with basic knowledge about atomic nucleus and radiation physics, which is followed by other specialized lec	-	
	evelopment of opinions on micro-wave and radiation physics, basic characteristics of the atom and nucleus, binding energy, measured		
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 neut	ron radiation,
40111050	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 lec		
inematic areas: ger	neral properties of radioactive decay, alpha decay, proton radioactivity, beta decay, gamma emission, natural radioactivity, properties a	and types of nucle	ear reactions,
40111/17	nuclear fission, transuranium elements, thermonuclear reaction.	7 71/	
16UVJZ	Introduction to Decommissioning of Nuclear Facilities	Z,ZK	4
	a familiarise students with the actual decommissioning process. The syllabus of the subject is built in the sense of the actual course of		
	oning 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	•	
16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1	Z,ZK	4
-	ving systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular		
their regulation. G	eneral human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system a	ind its physiology.	Respiratory
1070450	system and physiology of respiration. Excretory and genital tract.	7 71/	
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK	4
	ogy of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood	-	w of nerves.
	S. Visual system and physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, en	1	
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, develop	oment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz	ations, energy tra	nsfer and
	absorption. Fundamentals of the effects of ionizing radiation.		1
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2	Z,ZK	4
Fundamentals of bi	ological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles a	and methods of m	easurements
	in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure.		
16ZIVB	Introduction to Ecology	KZ	2
The subject inform	about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the environments of the environment of	onment and evaluation	ate economic
	indicators and sustainable development.	, 	
16ZONK	Basics of Oncology	Z	2
	logy and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the best		
	om mutation to tumorigenesis proto-oncogenes, oncogenes, anti-oncogenes 5. Tumour microenvironment - hypoxia, angiogenesis a n		
circulating tumour	cells and metastatic behaviour of tumours 7. Tumour types and their classification (TNM, Gleason) 8. Tumour histology, biopsies, tum	our markers 9.Dia	agnostics an
	overview of best known methods 10.Cancer treatment and its success rate		1
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 inclu	ides 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 basic principles of detection and calibration of common instruments in the field of ionizing radiation measurement.	the course is to u	nderstand to
16ZPSP	Basic Work with PC	Z	2
The aim of the cou	rse is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is devote	ed to information	systems and
resources available	e at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text editor, s	spreadsheet and	presentation
software) with exe	ercises in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bachelor's	and diploma the	ses) and in
specific practice (he	ospitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and securi home exercises and participation in exercises above 60% is a necessary condition for passing the course.	ity. Completion of	independen
16ZRAO	Basics of Radiation Protection	7	2
	rse is to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and con	_	
	field. The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how it i		
	ng of protective units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not requi		-
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 biologi		1
	ular, cellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its evalua		0
17BPJI1	Bachelor Thesis 1	Z	5
		_	-
Student on the bas	sis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject is giver topic. The work is continuously check by a supervisor.	T by Sell-Tellant w	ork on given
		7	10
17BPJI2	Bachelor Thesis 2	Z	10
Student on the bas	sis of theses assignment and under leading of a supervisor individually processes given topic during 2 semesters. The subject is giver topic. The work is continuously check by a supervisor.	n by self-reliant w	ork on given
17BPROV	Safe operation of nuclear facilities	KZ	2
	The aim of the subject is to familiarize students with basic principles of nuclear safety.		
bases necessary fo	Experimental Neutron Physics sed on experimental methods and experiments in the field of neutron physics, mainly using radionuclide neutron sources. The lectures or preparation and realization of the laboratory exercises and to the methods of experimental data processing and evaluation. Specifically ron properties and their utilization, the characteristics of neutron sources, properties of prompt and delayed neutrons, selected methods	y, the lectures pro	vide detailed
The course is focus bases necessary for description of neutri- transport in substa detection, measu	sed on experimental methods and experiments in the field of neutron physics, mainly using radionuclide neutron sources. The lectures or preparation and realization of the laboratory exercises and to the methods of experimental data processing and evaluation. Specifically ron properties and their utilization, the characteristics of neutron sources, properties of prompt and delayed neutrons, selected methods nces, production, formation and modification of neutron fields and neutron beams. The lectures are complemented by the laboratory e urement of delayed neutrons, study of neutron transport in various substances, experiments with various neutron sources (252Cf, Aml	are devoted to th y, the lectures pro s of neutron detect xercises in the fie Be, D-D neutron g	the theoretical vide detailed tion, neutron Id of neutron generator),
The course is focus bases necessary for description of neutri- transport in substa detection, measu preparation and	sed on experimental methods and experiments in the field of neutron physics, mainly using radionuclide neutron sources. The lectures or preparation and realization of the laboratory exercises and to the methods of experimental data processing and evaluation. Specifically ron properties and their utilization, the characteristics of neutron sources, properties of prompt and delayed neutrons, selected methods nces, production, formation and modification of neutron fields and neutron beams. The lectures are complemented by the laboratory e urement of delayed neutrons, study of neutron transport in various substances, experiments with various neutron sources (252Cf, Aml detection of photo-neutron source, calibration of the radionuclide neutron source. The experiments are realized at the VR-1 training r	are devoted to the y, the lectures pro- s of neutron detect xercises in the file Be, D-D neutron eactor and its lab	the oretical vide detailed tion, neutron Id of neutron generator), oratories.
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