Study plan

Name of study plan: Radiologická technika

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Radiological Technology

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 program

Minimal number of credits of the block: 0

The role of the block: P

Code of the group: BSPRT1

Name of the group: BS P_RT 1st year Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 18 courses

Credits in the group: 0 Note on the group:

Note on the g	, I					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.)	Z,ZK	6	4+2	L	Р
02PRAK	Experimental Laboratory Libor Škoda Libor Škoda (Gar.)	KZ	4	0+4	L	Р
01MATZ1	Mathematics, Examination 1 Radek Fu ik Radek Fu ik Radek Fu ik (Gar.)	ZK	2	-	Z	Р
01MATZ2	Mathematics, Examination 2 Radek Fu ík, Mat j Tušek Mat j Tušek Radek Fu ík (Gar.)	ZK	2	-	L	Р
01MAT1	Mathematics 1 Radek Fu ik Radek Fu ik (Gar.)	Z	4	3P+3C	Z	Р
01MAT2	Mathematics 2 Radek Fu ik Radek Fu ik (Gar.)	Z	4	3P+3C	L	Р
02MECH	Mechanics David Be Antonín Hoskovec David Be (Gar.)	Z	4	4+2	Z	Р
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David Be, Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	Р
16EZB	The Principles of Ethical Behavior in Health Care Ingrid Strobachová Ingrid Strobachová (Gar.)	Z	1	1+0	1	Р
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	Р
16URF1	Introductory Radiation Physics 1 Ladislav Musílek Ladislav Musílek (Gar.)	Z,ZK	4	2+2	Z	Р
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	Р
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2 Alena Doubková, Šimon Vaculín, Josef Stingl Alena Doubková Alena Doubková (Gar.)	Z,ZK	4	2+2	L	Р
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	Р
16ZPSP	Basic Work with PC Kamil Augsten Kamil Augsten (Gar.)	Z	2	0+2	1	Р

16HEB	Basics of Preventive Medicine for Engineers Anna Hor áková Anna Hor áková Ariana Laj íková (Gar.)	Z	1	1+0	Z	Р
18ZPRO	Basics of Programming Nichita Vatamaniuc, Jan Vondruška, Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	Р
16ZPPB	Basics of First Aid for Engineers Ji í Málek (Gar.)	Z	2	0+2	L	Р
21		D DT 4-1-		1	ļ.	
naracteristics (of the courses of this group of Study Plan: Code=BSPRT1 Name=BS Electricity and Magnetism	P_RI 1St y	/ear	7	Z,ZK	6
-	pmb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectri	cs. Electric curr	ent and circu	į.		_
theory. Electrodynam	ic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagneti	c waves, Ma	xwell equation	ns.	_
02PRAK	Experimental Laboratory			I	KZ	4
	rimarily for students who study branch Nuclear Chemistry engineering, or practically oriented					
•	dents interested in the other specializations. During Experimental laboratory, students learn he the measurement (acquire of different experimental procedures and routines), will teach writin-		•	, ,		**
•	ctically extend the knowledge gained in lectures on physics.	g the records of	illeasuleillei	ii, processiri	y and evalu	ialion or results
01MATZ1	Mathematics, Examination 1				ZK	2
01MATZ2	Mathematics, Examination 2				ZK	2
01MAT1	Mathematics 1				Z	4
-	d to the study of the basics of calculus of one variable. It includes an introduction to differentia	l and integral ca	lculus, with p	। particular em		•
practical problems.		_				
01MAT2	Mathematics 2				Z	4
	the continuation of Mathematics 1, is devoted to the integration techniques, improper Rieman	•	luction to par	rametric curv	es (especia	ally in polar
**	ics of sequences and infinite series, and finally to the Taylor and power series and their applic	ations.				
02MECH	Mechanics	manitian Duman	aina af a marri	ا ممار ممار	Z	4
	s, physical quantities and units. Kinematics of a particle, basic types of motion and their super ion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a syst				•	
of a rigid body, rotation	•	om or particios,	о дошу р.	ob.oo, pa		
02MECHZ	Mechanics - Examination				ZK	2
The content of the su	bject is the examination according to the plan of studies.			'	'	
16EZB	The Principles of Ethical Behavior in Health Care				Z	1
	sideration, respect for patient autonomy, ethical aspects of oncology care - truthfulness in hos	-	on, euthanas	ia, patient riç	ghts, ethica	l aspects of
	, ethical aspects of genetic consultancy, health-care economica, problem summary, closing di	scussion.			_	
00PT	Preparatory Week				Z	2
16URF1	Introductory Radiation Physics 1 nions about atoms and radiation physics, relativistic and quantum properties, basic characteri	stics of atoms a	nd nuclei hi		Z,ZK	4 ment of nuclear
	nuclear moments, isospin, basic nuclear models, general characteristics of interaction of radiation					
penetration of radiation	on beams through material, radiation effects in a matter.					
16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1			Z	,ZK	4
	systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and o	٠.	•	•	•	
•	rral human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle ana py of respiration. Excretory and genital tract.	atomy in genera	l. Digestive s	ystem and it	s physiolog	y. Respiratory
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2			7	,ZK	4
	of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of v	eins and physic	logy of blood		,	
	and physiology of the visual system. Auditory and vestibular system and physiology of hearing				Ü	
02ZM1	Foundations of Physical Measurements 1				ZK	2
	ed for students of physical specializations (Experimental particle physics, Physical engineering	-				-
•	goal of the lecture is to introduce the basics of physical measurements, the methods of proces	sing and evalua	ition of acqui	red data on	a PC. Stude	ents learn the
basic habits of work in 16ZPSP	Basic Work with PC				Z	2
	e is to acquaint students with the basic skills related to working on a personal computer. The in	troductory part	of the course	 e is devoted t	1	
	t the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with of					-
software) with exercis	es in MS Office. The practical content focuses mainly on further use during studies (laborator	y reports, resea	rch work, ba	chelor's and	diploma the	eses) and in
	oitals, state administration, companies). Other sections summarize basic information about cor	nputer hardware	e, software, a	nd security.	Completion	of independen
	participation in exercises above 60% is a necessary condition for passing the course.				-	
16HEB	Basics of Preventive Medicine for Engineers and comunal enviromental hygiene. Emphasis is laid on hygienic requirements of work enviror	mont for coloct	ne physical a	nd chomical	Z	1 Is Conoral and
_	ctice and theory of hygiene. Development of hygiene. Basic constitution of hygienic compound				-	
· -	requirements on work environment. Work hygiene. Physical factors in work environment: temp	_	-	-	-	
exchange, heating). Il	umination: Values of parameters. Visual well-being. Heat: Basic parameters. Heat well-being.	Actions against	noise. Action	ıs against vib	rations. Eff	fects of noise
=	mical pollutants and aerosols in work environment: Health protection at work. Hygiene of surfa	-	-			=
	curity. Waste hygiene and their disposal: waste water, solid waste, hygiene of water. Protection			-		
•	Duties in field of health protection. Categorization of work places. Declaration of risk activities. Expectigation of their origins. Reporting of work injuries and deffects of technical instrumentation		-		IGII EVIUEII	oo. Itepul lilig
18ZPRO	Basics of Programming	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sg.		Z	4
-	ed mainly for students with little or no experience in programming. It familiarizes the students w	vith the basic co	ncepts in pr	। ogramming a	_	
programming languag						
16ZPPB	Basics of First Aid for Engineers				Z	2
The first medical aid	exercises are prepare in that way, to include the whole spectrum of urgent situations, that can	come into being	g in his/her w	ork, or in the	common l	ife, and make
the listener able to so						

Code of the group: BSPRT2

Name of the group: BS P_RT 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 17 courses

Credits in the group: 0 Note on the group:

rtoto on the gi	Name of the course / Name of the group of courses		1		1	
Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
16DETE	Detectors of Ionizing Radiation Petr Pr ša Petr Pr ša Petr Pr ša (Gar.)	ZK	4	4+0	6	Р
16ZJTB	Nuclear Energy Facilities and Accelerators Kamil Augsten, Tomáš echák Kamil Augsten Tomáš echák (Gar.)	ZK	2	2+0	Z	Р
16KPR	Clinical Propaedeutic Jana Votrubová Jana Votrubová Jana Votrubová (Gar.)	ZK	2	2+0	Z	Р
16INZB	Medical Informatics for Engineers Tomáš Urban Tomáš Urban Jaroslav Kluso (Gar.)	KZ	2	1+1	1	Р
01MAT3	Mathematics 3 Miroslav Kolá, David Krej i ík, Severin Pošta David Krej i ík David Krej i ík (Gar.)	Z,ZK	4	2+2	Z	Р
01MAT4	Mathematics 4 Mat j Tušek Mat j Tušek Mat j Tušek (Gar.)	Z,ZK	4	2+2	L	Р
16ZOME	Non-radiation imaging methods Jakub Foukal, Marek Mechl, Jaroslav Tint ra Jaroslav Tint ra (Gar.)	ZK	2	2P+0C	Z	Р
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	Р
16IDOB	Principles of Integrating Dosimetric Methods Iva Ambrožová Ladislav Musílek Iva Ambrožová (Gar.)	ZK	2	2+0	L	Р
18PMTL	Programming in MATLAB Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	Z	Р
16TZPB	Overview of Legislation in Health Care Petra Dostálová Petra Dostálová (Gar.)	Z	2	2+0		Р
16URF2	Introductory Radiation Physics 2 Ladislav Musílek Ladislav Musílek (Gar.)	Z,ZK	4	2+2	L	Р
16USRJB	Introduction to Quality Management in Health Care for Bachelors Jaromír Pešek Jaromír Pešek (Gar.)	Z	2	1P+1C	Z	Р
16ZPRD	Elementary Labs Petr Pr ša, Pavel Novotný Petr Pr ša Pavel Novotný (Gar.)	KZ	3	3L		Р
16ZPRA	Elementary Labs Petr Pr ša	KZ	2	0+2		Р
16ZDOZ1	Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2+2		Р
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2P+2C	L	Р
16ZRIZ	Health risks of ionizing radiation Marie Davídková Marie Davídková (Gar.)	ZK	2	2P+0C	L	Р

	Walle Davidkova Walle Davidkova (Gal.)					
Characteristics o	f the courses of this group of Study Plan: Code=BSPRT2 Name=BS	P_RT 2nd y	ear ear			
16DETE	Detectors of Ionizing Radiation				ZK	4
Gas filled detectors (io	nization chambers, proportional counters, Geiger-Müller counters, corona counters), organic a	nd inorganic scir	ntillation det	ectors, Cher	enkov cou	nters, evaluatior
of light by photomultipl	er, parameters of PMT, semiconductor detectors, cryogenic detectors.					
16ZJTB	Nuclear Energy Facilities and Accelerators				ZK	2
Basic scheme of nucle	ar reactor and nuclear power plant, chain fission reaction development, main components of	nuclear energeti	c reactor, m	ost importa	nt reactor t	ypes, linear
high-voltage accelerate	ors, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron,	electron and pro	ton synchro	trons, electr	on and ion	sources for
accelerators, targets.						
16KPR	Clinical Propaedeutic				ZK	2
Making students famili	ar with the basics of anamnesis, physical examination, examinational methods of different orga	ans, hematologic	cal and bioc	hemical exa	minations a	and anaesthesia
16INZB	Medical Informatics for Engineers				KZ	2
Students are introduce	d into the basic concepts of using information technologies in medical application. They gain	basic knowledge	e of UNIX, X	(-Windows, ı	networking	with TCP-IP
protocol, types of stora	ge and back-up of data, network and data security, and how to avoid data misuse. Next, they	will be indroduc	ed into the	opportunities	s of achiev	ing, processing
and storing medical im	ages, formats of medical data (DICOM), native medical networks (PACS), and systems of particles and systems of particles are systems.	cient monitoring.	. Short basic	c excersises	are includ	ed.
01MAT3	Mathematics 3			Z	z,ZK	4
The subject summarise	es the most important notions and theorems related to the study of finite-dimensional vector s	spaces.		·	•	
01MAT4	Mathematics 4			Z	Z,ZK	4
Linear and non-linear	ifferential equations of the first order. Linear differential equations of higher order with consta	nt coefficients. N	/lultivariable	calculus an	d its applic	ations.
16ZOME	Non-radiation imaging methods				ZK	2
Applied anatomy, topo	ogy and clinical anatomy in radiology. Pathologic - radiological correlations on different fields.	The dose x reso	olution x pat	hologic - rac	liological c	orrelations - the
attempt of "historical" of	liagnostics in the light of radiation protection. Technical potential of radiological methods and t	their application	in radiologio	al - anatomi	c - patholo	gic correlations
The image post proces	sing and topology.					

12NME1 Numerical Methods 1 There are explained the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computational environment MATLAB is used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. Principles of Integrating Dosimetric Methods The basic principle of integrating dosimetric methods and their use in practice. Overview of the main types of integrating dosimeters solid phase micro neutron detectors and dosimeters. A basic comparison of the advantages and disadvantages of various systems, methods of standardization of secondary benefits, focusing on applications in personal dosimetry and environmental dosimetry. 18PMTL Programming in MATLAB ΚZ Introducing Matlab environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis, statistics, algorithmization and geometric representation of results. 16TZPB Overview of Legislation in Health Care This course provides an overview of technical and health-care specific legal and other regulations associated with utilization of health-care devices based on ionizing radiation and/or nuclear energy in health care. Problematics of judgement of accordance, in-market implementation, acquisition, commission, utilization, maintenance, service and evidence of health-care resources and problems of clinical evaluation and clinical tests. ("Law on technical requirements on products", "Law on health-care resources, Law on metrology, Atomic law, and related regulations, EC directives, relevant norms - CSN, EN, ISO). Furthermore, the "Law on health services", the "Law on specific health services", system of special health care for people irradiated by radiation accidents. Legislation concerning radiological health professions: Laws on clinician and non-clinician health professions", and related regulations, including system of graduate, specialization and continuing education, certifications, registrations. Indication criteria for imaging modalities and radiological medical standards, including determination and evaluation of patient doses, and audits of patient doses. Introductory Radiation Physics 2 16URF2 General characteristics of radioactive decay, alpha decay, proton radioactivity, beta decay, emission of gamma radiation, natural radioactivity, types and characteristics of nuclear reactions, nuclear fission, transuranium elements, thermonuclear fussion. 16USRJB Introduction to Quality Management in Health Care for Bachelors Ζ 2 General orientation in field of quality management. Implementation of quality control (QC) systems, implementation QC systems in a health institution, understanding ISO 9000 norms - System of quality management, and ISO 17025 - General requirements on qualification of reference and calibration laboratories. Requirements of total quality management (TQM). A reason of implementation ISO norms to health care. Accreditation and certification of a health institution. Preparation and procedures of certification/accreditation process in a health institution. 16ZPRD ΚZ 3 **Elementary Labs** The aim of the course is to acquaint students with applications of ionizing radiation detectors and also with the principles of detection and spectrometry of ionizing radiation. Ionizing radiation detectors in this course is considered as a device which produces an evaluable signal at the time of interaction (unlike dosimeters). The aim of the course is to understand to basic principles of detection and calibration of common instruments in the field of ionizing radiation measurement. 16ZPRA **Elementary Labs** K7 2 Subject consists of practical excersises with purpose to learn student to operate basic nuclear instrumentation and also to show them practically basic characteristic of ionizing radiation 16ZDOZ1 Fundamentals of Radiation Dosimetry 1 Z.ZK History, development, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionizations, energy transfer and absorption. Fundamentals of the effects of ionizing radiation. Fundamentals of Radiation Dosimetry 2 Fundamentals of biological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles and methods of measurements in dosimetry. Determination 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 biological effects of ionizing radiation (IR) at the molecular, cellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its evaluation, basics of epidemiology.

Code of the group: BSPRT3

Name of the group: BS P_RT 3rd year Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 13 courses

Credits in the group: 0

Note on the group: Vykonání zkoušky z předmětů 16RTNM, 16RTDG, 16RTRTB je podmíněno úspěšným zakončením předmětů 01MAT4, 16ZDOZ2N, 16URF2 a 16DETE.Vykonání zkoušky z předmětu 16RAON je podmíněno úspěšným

zakončením předmětů 16ZRIZ, 16ZDOZ2N, 16URF2 a 16DETE. Vykonání zápočtu z předmětu 16RDKBS je podmíněno získáním zápočtu z předmětu 16RTDG. Zápis předmětu 16NMKBS je podmíněn získáním zápočtu z předmětu 16RTNM. Vykonání zápočtu z předmětu 16RTKBS je podmíněno získáním zápočtu z

předmětu 16RTRTB.

	predmeta fortists.					
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
16BPRT1	Bachelor Thesis 1 Tomáš Trojek Tomáš Trojek (Gar.)	Z	5	0+5	5	Р
16BPRT2	Bachelor Thesis 2 Tomáš Trojek Tomáš Trojek (Gar.)	Z	10	0+10	6	Р
16KLDB	Clinical Dosimetry for Technicians Tereza Hanušová, Tomáš Trojek, Josef Novotný Tereza Hanušová Josef Novotný (Gar.)	ZK	2	2+0		Р
16NMKBS	Clinical Training - Nuclear Medicine Tereza Krá merová Tereza Hanušová Tereza Krá merová (Gar.)	KZ	4	2XT	L	Р
16RTKBS	Clinical Training - Radiotherapy Irena Koniarová Tomáš echák (Gar.)	KZ	4	2XT	L	Р

01PRST	Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	P
16RAON	Radiation Protection Ji í Martin ík, Tomáš Trojek, Darina Trojková, Ji í H lka, Ladislav Tomášek Ji í Martin ík Tomáš Trojek (Gar.)	ZK	4	4+0	Z	Р
16RTNM	Radilogical Technology-Nuclear Medicine Ji í Trnka Kate ina Pila ová Ji í Trnka (Gar.)	Z,ZK	3	2+1	5	Р
16RTRTB	Radiological Technology-Radiotherapy Josef Novotný, Mat j Navrátil, Irena Koniarová, Igor Sirák, Milan Vošmik Irena Koniarová Irena Koniarová (Gar.)	Z,ZK	3	2P+1C	6	Р
16RTDG	Radiological Technics - Diagnostic Radiology Pavel Dvo ák Kate ina Pila ová Lucie Súkupová (Gar.)	Z,ZK	3	2+1	5	Р
16SEMB	Bachelor Thesis Seminar Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	2	0P+2C	L	Р
Characteristics of t	the courses of this group of Study Plan: Code=BSPRT3 Name=BS	S P_RT 3rd y	ear			
-	Bachelor Thesis 1 ont of work and under the guidance of a supervisor prepares an individual for a given topic	for 2 semesters.			Z	5
1	Bachelor Thesis 2 nt of work and under the guidance of a supervisor prepares an individual for a given topic	for 2 semesters.			Z	10
Specific requirements for instrumentation and in-viv	Clinical Dosimetry for Technicians radiation beam dosimetry as well as radiation protection aspects will be discussed for clinic vo dosimetry technology and their possibilities and limitations in clinical dosimetry will be ar rmination based on activity of applied radiopharmaceutical.	=		nd relative do	-	_
Training in the field of rad Obtaining a basic idea of experienced radiological p	Clinical Training - Nuclear Medicine liological physics in nuclear medicine organized together with clinical partners. Overview or the activities and responsibilities of the radiological physicist and technicist. Practical (dos physicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spatial	simetric and/or of	ther) routine	sponsibilities tasks under	the supervi	sion of an
	Clinical Training - Radiotherapy				KZ	4
16RDKBS	liological physics in radiotherapy organized together with clinical partners. Clinical Training - X-Ray Diagnostics Iiological physics in X-ray diagnostics organized together with clinical partners. Overview o	of duties activitie	e and respo	1	KZ	4 al physicist
Intorduciton to the clinica examples: correct setup of	Il environment and its specifications. Practical (dosimetric and/or other) routine tasks unde of the X-ray device (dental, panoramatic, radiographic, fluoroscopic, mammographic, CT), ent dose (TL dosimetry), indirect measurement of the patient dose (ion chamber, DAP met	r the supervision QA tests, image	of an expe	rienced radio n, check of th	logical phys	icist. Training
16PDZBS	Practicum in Detection and Dosimetry of Ionizing Radiation cal exercises. They should learn students to operate nuclear instrumentation common in p				KZ ch may be p	4 part of their
01PRST It is a basic course of prodefinition. The notions as	Probability and Statistics bability theory and mathematical statistics. The probability theory is build gradually beginn random variable, distribution function of random variable and characteristics of random vary the basic methods of mathematical statistics such as estimation of distribution parameters.	ariable are treate	d and basic	on and continution on the continution of the continue of the c	-	_
The course covers the ba	Radiation Protection asic principles of radiation protection. It describes not only the current approaches but also pecial competence in radiation protection and learner receives appropriate certificate.	points to future	developmer	'	ZK se is accepto	4 ed as training,
Radionuclide and radioph	Radilogical Technology-Nuclear Medicine narmaceutical production, radiation detection in nuclear medicine, scintigraphy - bacis prin nedicine, image quality in nuclear medicine, quantification in nuclear medicine, Internal rac				d PET, tomo	3 ographic
1	Radiological Technology-Radiotherapy diological technical aspects in radiotherapy. Units for external radiotherapy and brachyther.	apy, treatment pl	lanning, qua		,ZK e, imaging i	3 n radiotherapy
	Radiological Technics - Diagnostic Radiology			Z	,ZK	3

2XT

0+4

3+1

Ζ

Z

2

ΚZ

ΚZ

7 7K

Clinical Training - X-Ray Diagnostics Lucie Súkupová Tereza Hanušová Tomáš Trojek (Gar.)

Probability and Statistics

Practicum in Detection and Dosimetry of Ionizing Radiation
Petr Pr ša, Ji í Martin ík Tereza Hanušová Petr Pr ša (Gar.)

16RDKBS

16PDZBS

01PRST

Name of the block: Compulsory elective courses

Bachelor Thesis Seminar

dosimetry and radiation protection in diagnostic and interventional radiology, quality control.

Minimal number of credits of the block: 0

The role of the block: PV

16SEMB

Code of the group: BSSPOLVEDYRT

Name of the group: BS - Social Sciences P_RT

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

X-ray unit, X-ray production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalities, computed tomography,

Note on the group:

Only one of these courses is obligatory.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00RET	Rhetoric Jana Ková ová Beatriz Vadillo Gonzalo (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

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

00RET	Rhetoric	Z	1
The course is focused of	n 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 nonverb	al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	n integral part of th	ne course.
00UPSY	Introduction to Psychology	Z	1

Code of the group: BSPJAZYKYZK Name of the group: BS P languages Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
04XAMZK	Tutors, authors and guarantors (gar.) English for Intermediate Students Examination 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 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 (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination 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 (Gar.)	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination 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

only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.

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	The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral								
(20-30 min). The studen	t is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English cou	ırses.							
04XAPZK	English for Advanced Students Examination	ZK	4						
The course content is th	e examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability	to apply their kno	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 04XCESZ1,2,3 courses and can									

CESMZK Czech for Intermediate Students Examination 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 CESM aken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. CESPZK Czech for Foreign Students - Advanced Examination 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 CESP	ZK 1,2,3 courses	4 and can only
aken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. CESPZK Czech for Foreign Students - Advanced Examination	1,2,3 courses	
CESPZK Czech for Foreign Students - Advanced Examination		and can only
	71.6	
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 CESP	ZK	. 4
	1,2,3 courses a	and can only
aken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
French for Intermediate Students Examination	ZK	4
content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of F	M1-FM3. The	examination
sists of a written and oral part and is organized according to Examination Instructions, a document available on the web.		
(FPZK French for Advanced Students Examination	ZK	4
whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and	d is organized	according to
mination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.		
KFZZK French for Beginners Examination	ZK	3
content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examinat	tion is ruled by	the document
uction for examination. Its content covers the levels FZ1 - FZ5.		
KNMZK German for Intermediate Students Examination	ZK	4
course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination oc	onsisting of two	parts - written
oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmen	t. More detaile	d information
be obtained from the teacher.		
(NPZK German for Advanced Students Examination	ZK	4
course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination cor	nsisting of two	parts - written
oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded as		
mation is to be obtained from the teacher.		
(RMZK Russian for Intermediate Students Examination	ZK	4
course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledg	e and skills ac	guired in RM1
13. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions	by the teacher	
(RPZK Russian for Advanced Students Examination	ZK	4
course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge	l l	=
3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by		•
(RZZK Russian for Beginners Examination	ZK	3
course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge		-
5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by		quired in IVE
(SMZK Spanish for Intermediate Students Examination	ZK	4
course content is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the written		•
ined non-graded assessment for course XSM3. Oral examination follows the written part.	i part, students	, will flave
	71/	
(SPZK Spanish for Advanced Students Examination	ZK	4
course content is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite for	r admission to	orai part is
ng passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan of the student.		
SZZK Spanish for Beginners Examination	ZK	3
course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral exam	ination only if I	ne/she has
sed the written examination test.		

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BSPRTV

Name of the group: BS P_RT Optional courses

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0
Note on the group:

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		
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	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		
01NME2	Numerical Methods 2 Michal Beneš Michal Beneš (Gar.)	KZ	2	2+0	L	V		
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	V		

15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
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
16UAZB	Principles of Ionizing-Radiation Applications Ladislav Musílek Kamil Augsten Ladislav Musílek (Gar.)	ZK	2	2+0	Z	V
16PSE	Topical Dosimetry Seminar Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	2	0P+2C		V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
16REB	Effects of Ionizing Radiation on Substance Kate ina Pila ová Kate ina Pila ová Kate ina Pila ová (Gar.)	ZK	2	2+0	Z	V
16SEPB	Semestral Project Tomáš Trojek Tomáš Trojek (Gar.)	Z	4	0+4	4	V
16SED1	Dosimetry Seminar 1 Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	2	0+2		V
TV-1	Physical Education	Z	1		Z	V
ΓV-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
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	V
16AMMB	Fundamentals of Analytical Measurement Methods Hana Pr šová Hana Pr šová Hana Pr šová (Gar.)	ZK	2	2+0	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	V
16ZONK	Basics of Oncology Anna Jelínek Michaelidesová Anna Jelínek Michaelidesová Anna Jelínek Michaelidesová (Gar.)	Z	2	2P+0C	L	V
16ZRAO	Basics of Radiation Protection Aneta Smejkalová Aneta Smejkalová (Gar.)	Z	2	2+0		V
16ZOZ	Sources of Irradiation and Environment Ladislav Musílek, Ond ej Ko istka, Tomáš echák, Tomáš Urban, Václav Št pán, Lenka Thinová Václav Št pán Václav Št pán (Gar.)	KZ	4	2P+2C	L	V

02ZM1	Foundations of Physical Measurements 1	ZK	2
The lecture is desi	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however	er, it can be attended	by students o
other branches. Th	ne goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired	data on a PC. Stude	ents learn the
basic habits of wo	k in a physics lab.		
02DEF1	History of Physics 1	Z	2
Physics and its pla	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural	philosophers, Aristotl	e. Physics in
	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galil cience. Newton and his work.	eo, Huygens. The bir	th of physics
04AKS	English Conversation	Z	1
their vocabulary fo	velop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication sommunication situations and will master their communication strategy. They will also practise their listening skills in ore student will be trained to express their ideas clearly and according to current English usage, and become a more confident spe	der to better follow a	
00MAM1	Essentials of High School Course 1	Z	1
Students are intro	duced to mathematical concepts and methods used in the introductory physics course.		
00MAM2	Essentials of High School Math Course 2	Z	1
Review of basics of	of high school mathematics.		
01NME2	Numerical Methods 2	KZ	2
The course is devo	oted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equa	tions. It explains meth	nods convertin
boundary-value pr	oblems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential en	quations.	
15CH1	General Chemistry 1	Z	3
		41 1	d by overnole
	nt concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and prac	ticai use are illustrate	ed by example
The most importar		ticai use are iliustrate	ей бу ехапіріє
The most importar solved in exercises		Z,ZK	3
The most importar solved in exercises 15CH2	5.	Z,ZK	3
The most importar solved in exercises 15CH2 The subject is the	General Chemistry 2	Z,ZK	3 es, the fact th
The most importar solved in exercises 15CH2 The subject is the the validity of these	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. U	Z,ZK	3 es, the fact th
The most importar solved in exercises 15CH2 The subject is the the validity of these exercises.	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. U	Z,ZK	3 es, the fact th
The most importar solved in exercises 15CH2 The subject is the the validity of these in exercises.	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Use principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle	Z,ZK Ising various examples are illustrated by ex	3 es, the fact the kamples solve
The most importar solved in exercises 15CH2 The subject is the the validity of these in exercises. 16PADR The aim of the county	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Use principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle Practical Analysis of Data and Risks	Z,ZK Ising various examples are illustrated by examples KZ ful for data and risk a	3 es, the fact the camples solve 4 analysis. The
The most importar solved in exercises 15CH2 The subject is the the validity of these in exercises. 16PADR The aim of the coumain content of the	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Use principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle Practical Analysis of Data and Risks urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, use	Z,ZK Ising various examples are illustrated by examples KZ ful for data and risk a	3 es, the fact the camples solve 4 analysis. The
The most importar solved in exercises 15CH2 The subject is the the validity of these in exercises. 16PADR The aim of the coumain content of the analysis and evaluated	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Use principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle Practical Analysis of Data and Risks urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, uses to course is practical application of theoretical procedures, especially data analysis using available software solution. Students with	Z,ZK Ising various examples are illustrated by examples KZ ful for data and risk a	3 es, the fact the camples solve 4 analysis. The
The most importar solved in exercises 15CH2 The subject is the the validity of these in exercises. 16PADR The aim of the coumain content of the analysis and evalue 16UAZB	General Chemistry 2 continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Use principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle Practical Analysis of Data and Risks urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, use e course is practical application of theoretical procedures, especially data analysis using available software solution. Students will attend of data and risks.	Z,ZK Ising various examples are illustrated by examples are illustrated by examples and fisk a full for data and risk a full learn to perform co	3 es, the fact th kamples solve 4 analysis. The emprehensive

16PSE	Topical Dosimetry Seminar	Z	2
The seminary is suppos	ed to motivate the students interest in the field of dosimetry and provide basic information about different applications of ionizing	ng radiation in scie	nce, in research
and in human life. The le	ectures are given by students and absolvents of DDAIR, who are currently employed at the department or in various organiza	ations (SÚRO, v.v.i	., ÚJF AV R
	spital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research	•	
	will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during the	ne studies and afte	erwards.
01PSL	LaTeX - Publication Instrument	Z	2
The course is devoted to	o the basics and facilities of computer typography, particularly to the system LaTeX		
16REB	Effects of Ionizing Radiation on Substance	ZK	2
History of radiolysis, trad	ck, stages of radiolysis, radiation chemical yield, experiments in radiolysis, classical methods, pulse radiolysis, EPR, some prin	nary products of ra	diolysis, excited
states, solvated electron	is, free radicals, radiolysis of gases, water, water solutions, organic liquids, radiolysis of solid materials, polymers, glasses, meta	lls and alloys, radia	tion technology,
sterilisation, crosslinking	g and degradation of polymers, treatment of foods.		
16SEPB	Semestral Project	Z	4
An essay providing an in	ntroduction into the field problematic. Work with publications, scientific databases and articles, books, internet. Researching,	combining of infor	mation gained
	Evaluation of the problem based on gained knowledge. A written paper focusing on present tasks in the field of radiological e	ngineering.	
16SED1	Dosimetry Seminar 1	Z	2
	sed to motivate the student's interest in the field of dosimetry, especially in medical physics. Introductory lectures will be devo		
a bachelor's thesis. The	following lectures are given by the former students of DDAIR, who are currently employed in various organizations (SÚRO, v)	/.v.i., ÚJF AV R v	.v.i., ÚJV ež,
MI, Hospital Na Homo	lce, FN v Motole, PTC Czech s.r.o.)		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
12UNXAP	Introduction to UNIX	Z	2
	g systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	ce. Hardware and	software.
Principles of operating s	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working	with files. Text ed	itors: vi, emacs.
Command interpreter (s	shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standarc	l tools. Graphical u	ser interface
X-windows. Computer n	etworks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	omputer. Network	services:
hardware sharing, mail,	scp, etc. Network applications		
16AMMB	Fundamentals of Analytical Measurement Methods	ZK	2
Basic principles, technic	al performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, ti	tration methods, p	otentiometry,
polarography, refractom	etry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-	ray structural analy	sis, nuclear
magnetic and electron s	spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography.		
12ZEL1	Basic Electronics 1	Z,ZK	3
The subject provides pr	imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir	cuit analysis meth	ods for linear
circuits include symbolic	c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effec	cts inside linear cir	cuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follows up v	with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic	themes of logical c	ircuits field.
16ZONK	Basics of Oncology	Z	2
1.Basics of cell biology	and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the b	est known mutatio	ns - BRCA1/2,
TP53, RAS 4.From muta	ation to tumorigenesis proto-oncogenes, oncogenes, anti-oncogenes 5.Tumour microenvironment - hypoxia, angiogenesis a	necrosis 6.Cancer	stem cells,
circulating tumour cells	and metastatic behaviour of tumours 7.Tumour types and their classification (TNM, Gleason) 8.Tumour histology, biopsies, tu	ımour markers 9.D	iagnostics an
overview of best known	methods 10.Cancer treatment and its success rate		
16ZRAO	Basics of Radiation Protection	Z	2
The aim of the course is	to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and	concepts, in order	to allow critical
orientation in this field.	The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how	v it is dangerous fo	r people, what
is the meaning of protect	ctive units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not require	any prior knowled	lge.
16ZOZ	Sources of Irradiation and Environment	KZ	4
The subject provides an	n overview of the usage of ionizing radiation from its discovery and first applications to modern methods. It allows the student		ic knowledge
about ionizing radiation	usage. The subject deals with the fundamental issues related to ionizing radiation and the safety of dealing with the sources of	f IR. The course in	cludes practical
exercises with processing	ng the data and subsequent presentation of the results.		

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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **English for Intermediate Students M1** 04XAM1 Z 0+2 Ζ Jana Ková ová Jana Ková ová (Gar.) **English for Intermediate Students M2** 04XAM2 Ζ 2 0+2 L ٧ Jana Ková ová Jana Ková ová (Gar.) **English for Intermediate Students M3** Ζ Ζ 04XAM3 2 0+2 ٧ Jana Ková ová Jana Ková ová (Gar.) English for Advanced Students P1 Ζ 04XAP1 2 Ζ 0+2 ٧ Jana Ková ová Darren Copeland (Gar.)

04XAP2	English for Advanced Students P2 Darren Copeland Darren Copeland (Gar.)	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 Jana Ková ová Darren Copeland (Gar.)	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	٧
04XCESZ2	Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	٧
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 Slechtová V ra Slechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2	Z	2	0+2	L	V
04XFP3	V ra Šlechtová V ra Šlechtová (Gar.) French for Advanded Students P3	Z	2	0+2	Z	V
04XFZ1	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z1	Z	2	0+4	L	V
04XFZ2	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z2	Z	2	0+4	Z	V
04XFZ3	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z3	Z	2	0+4	L	V
04XFZ4	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z4	Z	2	0+4	Z	V
04XFZ5	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z5	Z	2	0+4	L	V
04XNM2	V ra Šlechtová V ra Šlechtová (Gar.) German for Intermediate Students M2	Z	2	0+2	L	V
04XNM1	Miloslava echová Miloslava echová (Gar.) German for Intermediate Students M1	Z	2	0+2	Z	V
04XNM3	Miloslava echová Miloslava echová (Gar.) German for Intermediate Students M3	Z	2	0+2	Z	V
04XNP1	Miloslava echová Miloslava echová (Gar.) German for Advanced Students P1	Z	2	0+2	Z	V
04XNP2	Miloslava echová Miloslava echová (Gar.) German for Advanced Students P2	Z	2	0+2	L	V
04XNP3	Miloslava echová Miloslava echová (Gar.) German for Advanced Students P3	Z	2	0+2	Z	V
04XRM1	Miloslava echová Miloslava echová (Gar.) Russian for Intermediate Students M1	Z	2	0+2	Z	V
04XRM2	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Intermediate Students M2	Z	2	0+2	L	V
04XRM3	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Intermediate Students M3	Z	2	0+2	Z	V
04XRP1	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Advanced Students P1	Z	2	0+2	Z	V
	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Advanced Students P2	Z	2	0+2	_	-
04XRP2	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Advanced Students P3				L 7	V
04XRP3	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Beginners Z1	Z	2	0+2	Z	V
04XRZ1	Zhanna Isaeva Zhanna Isaeva (Gar.) Russian for Beginners Z2	Z	2	0+4	L	V
04XRZ2	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 courses of this group of Study Plan: Code=BSPJAZYKY	ZAP Name=BS P	jazyky za	ар		
04XAM1	English for Intermediate Students M1			_	Z	2
The course is design	led for students who have successfully completed the full secondary school English lang	guage course at least a	t the A2 leve	el of the Com	mon Europea	an Framewo
•	guages (CEFR). It provides an introduction into English for Specific and Academic Purp				•	
professional oral and	written communication situations. Thus it covers topics related to the student's life and	I needs as well as topic	s of subtech	nical interest	. Attention is	also paid to
extending the knowle	edge of grammar issues used in EAP.					
04XAM2	English for Intermediate Students M2				7	2

04XAM2 | English for Intermediate Students M2 The AM2 course expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on specific grammar, functions, and lexical items typical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided writing. If necessary, grammar revision is included. 04XAM3 English for Intermediate Students M3 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. 04XAP1 English for Advanced Students P1 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application, polite request). If necessary, revision of selected grammar topics is included. English for Advanced Students P2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various types of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and paragraph structure, linking, cohesion and coherence in texts. 04XAP3 English for Advanced Students P3 The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication. 04XCESZ1 Czech for Foreigners - Beginners 1 The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they will acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyday situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová. Czech for Foreigners - Beginners 2 The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová. 04XCESZ3 Czech for Foreigners - Beginners 3 The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise

frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina expres

04XCESM1 Czech for Foreigners - Intermediate 1

The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.

	r Foreigners - Intermediate 2	Z	2
	ered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading	g skills and train	ns the student
-	ions, abbreviated words, and mathematical terms and formulas.	7	
	r Foreigners - Intermediate 3 al topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially	Z	disting and
lexicology and on developing the stu		locused on sty	Allos and
	r Foreign Students - Advanced 1	7	2
	γ good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe	ean Frameworl	
It is focused partly on revision of star	ndard language structures, but mainly on practising more complex grammatical structures typical of the style of scien	nce. Students a	are taught the
	ring and professional communication, both in spoken and written form. The topics include University Studies and Studies	dent Life. Writte	en practice
includes communication with teache			_
l l	r Foreigners - Advanced 2	Z	2
emphasis on individual work.	nowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and s	specialist texts	placing greater
	r Foreigners - Advanced 3	7	2
l l	nowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a		_
·	ssary for professional communication are trained.		
04XFM1 French fo	or Intermediate Students M1	Z	2
•	tive of this three-semester course is to improve and further develop communication in the French language in both wi		
	l interaction and in academic, scientific and professional environment. They will be able to use the language to transn	_	
·	M1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, system		
	ollowing topics are covered: University studies in our country and in France, writing of transactional letters, CV, persona Ography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work base		
	or Intermediate Students M2	7	2
	c structures and competence acquired in previous study are systemized and expanded. Reading popular science texts	s, features typic	
and scientific language (passives, no	ominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science	and technolog	gy, French
scientists, artists and architects. Des	scription of an object, device, shapes, dimensions, material.		
l l	or Intermediate Students M3	Z	2
-	ent and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subc		
	ses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class. n or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work o		
·	ceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and cohe		Treneria di deces
	or Advanced Students P1	Z	2
l l	of this three-semester course is to improve and further develop communication in the French language in both written	n and oral form	. Students will
	eraction and in academic, scientific and work environment. They will be able to use the language to transmit general a		
to solve problems. FP1 The course b	uilde en and further devolone linguistic competence cognired et accordery coheel. Difficult grammer tenice ere renec		
•	uilds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repear	•	
passé composé-imparfait, pronouns.	. The following specific topics are covered: University studies in our country and in France, writing of transactional lett	ters, CV, perso	nal statement,
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passé composé-imparfait, pronouns. request, answer to an advert, enviror internet, physics, chemistry. Reading	. The following specific topics are covered: University studies in our country and in France, writing of transactional lett	ters, CV, perso	nal statement,
passé composé-imparfait, pronouns. request, answer to an advert, enviror internet, physics, chemistry. Reading 04XFP2 French for	. The following specific topics are covered: University studies in our country and in France, writing of transactional lett nmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of g of technical and popular science texts, further work with these texts and interpretation.	ters, CV, perso of specialization	nal statement, n: mathematics,
passé composé-imparfait, pronouns. request, answer to an advert, enviror internet, physics, chemistry. Reading 04XFP2 French fc With the link to P1 contents, the coutechnical and scientific communication.	The following specific topics are covered: University studies in our country and in France, writing of transactional letternmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of of technical and popular science texts, further work with these texts and interpretation. Or Advanced Students P2 rese further develops language skills. Focus is put on reading popular science texts and on oral communication on give on are stressed (passive voice, nominalization, word formation).	ters, CV, perso of specialization	nal statement, n: mathematics, 2 tures typical of
passé composé-imparfait, pronouns. request, answer to an advert, enviror internet, physics, chemistry. Reading 04XFP2 French fo With the link to P1 contents, the cout technical and scientific communication 04XFP3 French fo	The following specific topics are covered: University studies in our country and in France, writing of transactional lettermental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of gof technical and popular science texts, further work with these texts and interpretation. Or Advanced Students P2 rese further develops language skills. Focus is put on reading popular science texts and on oral communication on give on are stressed (passive voice, nominalization, word formation). Or Advanded Students P3	ters, CV, perso of specialization Z ven topics. Fea	nal statement, in mathematics, 2 tures typical of
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04XNM2	German for Intermediate Students M2	Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relatio		
•	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course syster	• • • • • • • • • • • • • • • • • • • •	
•	for professional discourse (participles, relative clauses).	,	grammania.
04XNM1	German for Intermediate Students M1	Z	2
	urse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena an		
•	ses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repulses the suit of the process and the second of the control of the contr	· -	
	ogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis s communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	ts, and the fundar	nentals of 11
04XNM3	German for Intermediate Students M3	Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relatio		
	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
· -	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	matically revises of	ther grammatical
· · · · · · · · · · · · · · · · · · ·	for professional discourse (participles, relative clauses).		
04XNP1	German for Advanced Students P1	Z	2
	ood grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for		
	structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on		•
i.e., telephoning.	,	,	,
04XNP2	German for Advanced Students P2	Z	2
The course develops the	e students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	ding their general	and subtechnical
· -	oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and	d practising formal	communication,
	CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	_	
04XNP3	German for Advanced Students P3	Z	2
	3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a var accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v	•	
	ring, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use		
·	process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. T		
practice to and from Ge			
04XRM1	Russian for Intermediate Students M1	Z	2
_	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal		•
=	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask		-
	mmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	level of the RZ2 (course. The
04XRM2	Russian for Intermediate Students M2	Z	2
-	n the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.		2
04XRM3	Russian for Intermediate Students M3	7	2
	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h	owever, for half of	the time allotted
in the timetable.			
04XRP1	Russian for Advanced Students P1	Z	2
•	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	acticing more diffi	cult grammar
•	ng the fundamentals of technical language and training writing skills.		
04XRP2	Russian for Advanced Students P2	Z	2
	n RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, at on independent oral and written communication.	verb aspects, spe	cific syntactic
04XRP3	Russian for Advanced Students P3	Z	2
	n RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra		
	revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).		
these skills. Further stu	dy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and	l written interpreta	tion). Students
•	cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and wit	h confidence on
technical topics.			
04XRZ1	Russian for Beginners Z1	<u> </u>	2
· · · · · · · · · · · · · · · · · · ·	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ	_	_
	or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak d stress, understand its contents and summarize it.	ing). Students will	be able to read
04XRZ2	Russian for Beginners Z2	Z	2
	of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short si		
able to communicate us	sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will	also develop their	vocabulary and
master further gramma	tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		
04XRZ3	Russian for Beginners Z3	Z	2
	RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	-	-
- :	duces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will b ress their opinion. Writing skills will be trained on guided writing tasks and note-taking.	e able to respond	SU AS IU DE
04XRZ4	Russian for Beginners Z4	Z	2
	RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with		
	tion in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver		-
	mperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),	•	
	e specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.	g., Siberia), learn	how to fill in
torms, look up the infor	mation from the timetable, learn about Russian holidays and typical meals.		

04XRZ5 Russian for Beginners Z5 The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summarizing information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 04XSM1 2 Spanish for Intermediate Students M1 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-semester course develops standard vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. 04XSM2 Spanish for Intermediate Students M3 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. Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. 04XSP1 Spanish for Advanced Students P1 2 Ζ Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR. Spanish for Advanced Students P2 04XSP2 Course XSP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication Spanish for Advanced Students P3 04XSP3 Ζ 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 focused on written communication based on what students will need in their career. 04XSZ1 Spanish for Beginners Z1 Ζ 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 fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. 04XSZ2 Spanish for Beginners Students Z2 Course XSZ2 is based on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis will be chosen so as to enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic. Realia of Spanish-speaking countries are also included. 04XSZ3 Spanish for Beginners Z3 This course builds upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It includes an introduction to the realia and cultural context of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including the pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics. Students are prepared for this through targeted reading and listening activities. 04XSZ4 Spanish for Beginners Z4 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 Spanish speaking countries, mainly of Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), 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. 04XSZ5 Spanish for Beginners Z5 Ζ 2 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final part, the general Spanish course based on the course book will end with a written and oral examination.

List of courses of this pass:

Code	Name of the course	Completion	Credits
00MAM1	Essentials of High School Course 1	Z	1
'	Students are introduced to mathematical concepts and methods used in the introductory physics course.		
00MAM2	Essentials of High School Math Course 2	Z	1
'	Review of basics of high school mathematics.		'
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focused	d on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of pul	olic speech
as well as to its nor	nverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	integral part of the	e course.
00UPSY	Introduction to Psychology	Z	1
01MAT1	Mathematics 1	Z	4
The course is devoted	d to the study of the basics of calculus of one variable. It includes an introduction to differential and integral calculus, with particula	ar emphasis on app	lications in
	practical problems.		
01MAT2	Mathematics 2	Z	4
The course, which is	s the continuation of Mathematics 1, is devoted to the integration techniques, improper Riemann integral, introduction to parametr	ic curves (especial	ly in polar
	coordinates), the basics of sequences and infinite series, and finally to the Taylor and power series and their applications	•	
01MAT3	Mathematics 3	Z,ZK	4
'	The subject summarises the most important notions and theorems related to the study of finite-dimensional vector spaces	S.	

01MAT4	Mathematics 4 -linear differential equations of the first order. Linear differential equations of higher order with constant coefficients. Multivariable cale	Z,ZK	4
01MATZ1	Mathematics, Examination 1	ZK	2
01MATZ2	Mathematics, Examination 2	ZK	2
01NME2	Numerical Methods 2	KZ	2
1	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.		ds converti
	ary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference	ential equations.	_
01PRST	Probability and Statistics	Z,ZK	4
	of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and of the probability theory are stated and begin the probability theory and the probability theory are stated and begin the probability theory are stated as a state of the probability theory are stated as a stat		
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the be basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testir		and prove
01PSL	LaTeX - Publication Instrument	Z	2
OTT OL	The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	_	_
02DEF1	History of Physics 1	Z	2
Physics and its pla	ice in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	sophers, Aristotle	e. Physics i
Helenistic period, A	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F	luygens. The birt	h of physic
0051111	as experimental science. Newton and his work.	7.71	
02ELMA	Electricity and Magnetism	Z,ZK	6
_	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, N	-	
02MECH	Mechanics	Z	4
	rics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	-	1
ne-dimensional m	otion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,	particle collisions	s. Mechani
	of a rigid body, rotation.		
02MECHZ	Mechanics - Examination	ZK	2
00000414	The content of the subject is the examination according to the plan of studies.	1/7	1 4
02PRAK	Experimental Laboratory	KZ	4
	primarily for students who study branch Nuclear Chemistry engineering, or practically oriented bachelor's specializations of branch N students interested in the other specializations. During Experimental laboratory, students learn how to prepare for experiments (inclu	_	-
•	of the measurement (acquire of different experimental procedures and routines), will teach writing the records of measurement, process	•	
•	At the same time practically extend the knowledge gained in lectures on physics.	_	
02ZM1	Foundations of Physical Measurements 1	ZK	2
he lecture is design	ned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c	an he attended h	y students
-			-
-	e goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data		-
other branches. The	e goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data basic habits of work in a physics lab.	a on a PC. Studer	nts learn th
other branches. The	e goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data basic habits of work in a physics lab. English Conversation	a on a PC. Studer	nts learn th
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also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication 04XAPZK English for Advanced Students Examination 7K 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 knowledge 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 of study. Czech for Foreigners - Intermediate 1 2 The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations. 04XCESM2 Czech for Foreigners - Intermediate 2 Ζ 2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas. Ζ 2 04XCESM3 Czech for Foreigners - Intermediate 3 The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills. 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 CESM1,2,3 courses and can only be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. 04XCESP1 Czech for Foreign Students - Advanced 1 Ζ 2 The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common European Framework of Reference. It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of science. Students are taught the basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Student Life. Written practice includes communication with teachers and faculty administrators. 04XCESP2 Czech for Foreigners - Advanced 2 2 This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and specialist texts placing greater emphasis on individual work. 04XCESP3 Czech for Foreigners - Advanced 3 Ζ 2 The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, and, finally, presentation of the student's project. Writing skills necessary for professional communication are trained. 04XCESPZK ZK Czech for Foreign Students - Advanced Examination 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 CESP1,2,3 courses and can only be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. 04XCESZ1 Czech for Foreigners - Beginners 1 Ζ 2 The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they will acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyday situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová. 7 04XCESZ2 2 Czech for Foreigners - Beginners 2 The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová. 04XCESZ3 Czech for Foreigners - Beginners 3 7 2 The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in eština expres 04XCESZZK Czech for Foreigners Beginners - Examination 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 04XCESZ1,2,3 courses and can only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher. French for Intermediate Students M1 04XFM1 French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Students will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transmit general and technical information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systemizes and expands language skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters. CV, personal statement, request, answer to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work based on these texts. French for Intermediate Students M2 2 Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science texts, features typical for technical and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science and technology, French scientists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3 The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subordinate and infinitive clauses, participle structures, compound tenses). Text summary. -Students prepare a written paper which will be delivered in form of an oral presentation in-class. The paper is linked to the field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work compiled from French articles and one's own knowledge/experience. -Longer monologues on topics /situations set for the examination are prepared. Text structure, cohesion and coherence 04XFMZK French for Intermediate Students Examination 7K 4 The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination consists of a written and oral part and is organized according to Examination Instructions, a document available on the web. 04XFP1 French for Advanced Students P1 FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Students will be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general and technical information and to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repeated and expanded: subjonctif, passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal statement, request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of specialization: mathematics, internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.

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04XFP2	French for Advanced Students P2	Z	2
with the link to P1	contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on gi technical and scientific communication are stressed (passive voice, nominalization, word formation).	iven topics. Feature	es typical of
04XFP3	French for Advanded Students P3	Z	2
The course is focus	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in en	gineering environm	ent. Special
skill - translation o	f shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover-	s a technical /appli	ed science
	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	_	cording to
047.	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grants for Decision 27.	ading.	2
04XFZ1	French for Beginners Z1 rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in soci	_	l l
-	es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
	ising the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		·
(Francouzština pro	za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe	rsonal information,	asking and
giving the o	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gramr	mar.
04XFZ2	French for Beginners Z2	Z	2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the		
_	ners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme	_	
trianking, travelling,	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic How does the machine work? A few expressions concerning the study. Name of University and Faculty.	cation. Specific topi	ics covered:
04XFZ3	French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra	_	
	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info		·
	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	tents is roughly co	vered with
	ne textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		0 0
Students of FJFI.	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shoppi	_	rsity in our
0.41/575	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, interne		
04XFZ5	French for Beginners Z5	Z	2
	ed in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	-	
-	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla		
	subjunctive clauses, gerund, passive.		
04XFZZK	French for Beginners Examination	ZK	3
The content is the	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination	ation is ruled by the	e document
	Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNM1	German for Intermediate Students M1	Z	2
The objective of the	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st	ructures (e.g. the p	assive) and
The objective of the word formation	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	ructures (e.g. the p blic and Germany,	assive) and current
The objective of the word formation environmental iss	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repusues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	ructures (e.g. the p blic and Germany, , and the fundame	assive) and current
The objective of the word formation environmental iss	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders	ructures (e.g. the p blic and Germany, , and the fundame	assive) and current ntals of IT
The objective of the word formation environmental iss	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repusues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	ructures (e.g. the p blic and Germany, , and the fundamen tandability.	assive) and current ntals of IT
The objective of the word formation environmental iss 04XNM2 The course introduce	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repusues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders German for Intermediate Students M2	ructures (e.g. the p blic and Germany, , and the fundamentandability. Z stween technology	assive) and current ntals of IT 2 and society,
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The objective of the word formation environmental iss 04XNM2 The course introducthe world at the b practise reading for	course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and stapprocesses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repusues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders German for Intermediate Students M2 ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic phenomena important for professional discourse (participles, relative clauses).	ructures (e.g. the public and Germany, and the fundamentandability. Zetween technology car technology etc. cally revises other of	assive) and current ntals of IT 2 and society, Students grammatical
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04XNPZK	German for Advanced Students Examination	ZK	4
The course conten	it 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 pai	rts - written
and oral, which o	over the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded	l assessment. More	e detailed
	information is to be obtained from the teacher.		
04XRM1	Russian for Intermediate Students M1	Z	2
The course is design	ned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and ha	andwritten),
-	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		
they can use bas	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement l		urse. The
	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab		
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, howe	ver, for half of the t	ime allotted
	in the timetable.		
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	It is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	-	
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst		
04XRP1	Russian for Advanced Students P1	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, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures.	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	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	rb aspects, specific	c syntactic
0.41/10.00	structures). Stress is put on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing		
	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 wi chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc		
develop their subte	technical topics.	diately and with col	iliderice on
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	l l	
	ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	-	
04XRZ1	Russian for Beginners Z1	7	2
-	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	ا Thus it begins with.	
	pet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking		
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2		Z	2
04XRZ2 The second semes	a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte	- 1	_
The second semes	Russian for Beginners Z2	chnical texts. Stud	ents will be
The second semes	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte	chnical texts. Stud develop their voca	ents will be
The second semes	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also	chnical texts. Stud develop their voca	ents will be
The second semes able to communicate 04XRZ3	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	echnical texts. Stud o develop their voca writing.	ents will be abulary and
The second semes able to communica 04XRZ3 The course is base	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3	chnical texts. Stud o develop their voca writing. Z various forms of re	ents will be abulary and 2 eading skills
The second semes able to communica 04XRZ3 The course is base	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training	chnical texts. Stud o develop their voca writing. Z various forms of re	ents will be abulary and 2 eading skills
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04XSP1	Spanish for Advanced Students P1 es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.	Z Course prereguisi	2 tes: level B2
	of CEFR.		
04XSP2 Course XSP2 is the	Spanish for Advanced Students P2 e second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta	Z x and focuses on i	2 ndependent
04XSP3	written communication. Spanish for Advanced Students P3	Z	2
	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 based on what students will need in their career.		l
04XSPZK	Spanish for Advanced Students Examination	ZK	4
hav	ent is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite ing passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan		
04XSZ1	Spanish for Beginners Z1 le first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundaments.	Z ental grammar stri	2
	to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa	-	
04XSZ2	Spanish for Beginners Students Z2	Z	2
	ased on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and nderstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a Republic. Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
	s upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include		
	ct of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including to imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics. Strongh 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	-	=
Spain. It pays atte	ention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening	-	ubjunctive),
04XSZ5	Spanish for Beginners Z5	Z	2
The course books	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo	r specific purposes	s. In its final
04XSZZK	part, the general Spanish course based on the course book will end with a written and oral examination. Spanish for Beginners Examination	ZK	3
	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination		_
400.045.4	passed the written examination test.	7.71	
12NME1	Numerical Methods 1		
Thoro are explaine		Z,ZK	4
· ·	red the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Met sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computati	hods for solution o	of tasks very
important for phys	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Met	hods for solution o	of tasks very
important for phys	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Met sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computations used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. Introduction to UNIX	hods for solution conal environment	of tasks very MATLAB is
important for phys 12UNXAP Computer and of	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Met sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computati used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.	hods for solution of onal environment Z ce. Hardware and	MATLAB is 2 software.
12UNXAP Computer and of Principles of opera Command interprinciples	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Medicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computations used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. Introduction to UNIX Deperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfacting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to	chods for solution of conal environment Z be. Hardware and sh files. Text editors ools. Graphical use	MATLAB is 2 software. s: vi, emacs. er interface
12UNXAP Computer and of Principles of opera Command interprinciples	the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Medicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computations used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. Introduction to UNIX operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfacting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working witereter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to imputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a computer networks.	chods for solution of conal environment Z be. Hardware and sh files. Text editors ools. Graphical use	MATLAB is 2 software. s: vi, emacs. er interface
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16HEB	Basics of Preventive Medicine for Engineers	Z	1			
_	al and comunal enviromental hygiene. Emphasis is laid on hygienic requirements of work environment for selectes physical and chem	· ·				
comunal hygiene: practice and theory of hygiene. Development of hygiene. Basic constitution of hygienic compounds and their organisation. Hygiene of atmosphere, land, water and						
	ienic requirements on work environment. Work hygiene. Physical factors in work environment: temperature, humidity. Conditions of wo					
	g). Ilumination: Values of parameters. Visual well-being. Heat: Basic parameters. Heat well-being. Actions against noise. Actions again g. Chemical pollutants and aerosols in work environment: Health protection at work.Hygiene of surfaces and coatings. Security of woi					
	security. Waste hygiene and their disposal: waste water, solid waste, hygiene of water. Protection of human health and health security					
	is. Duties in field of health protection. Categorization of work places. Declaration of risk activities. Kinds of work injuries. Registration a					
=	of work injuries and investigation of their origins. Reporting of work injuries and deffects of technical instrumentation, investigation of t					
16IDOB	Principles of Integrating Dosimetric Methods	ZK	2			
The basic principle	of integrating dosimetric methods and their use in practice. Overview of the main types of integrating dosimeters solid phase micro neul	tron detectors and	dosimeters.			
A basic compariso	n of the advantages and disadvantages of various systems, methods of standardization of secondary benefits, focusing on application	ns in personal dos	imetry and			
	environmental dosimetry.					
16INZB	Medical Informatics for Engineers	KZ	2			
	oduced into the basic concepts of using information technologies in medical application. They gain basic knowledge of UNIX, X-Window	_				
	torage and back-up of data, network and data security, and how to avoid data misuse. Next, they will be indroduced into the opportur nedical images, formats of medical data (DICOM), native medical networks (PACS), and systems of pacient monitoring. Short basic e					
			2			
16KLDB	Clinical Dosimetry for Technicians nts for radiation beam dosimetry as well as radiation protection aspects will be discussed for clinically used beams. Absolute and relative	ZK				
	d in-vivo dosimetry technology and their possibilities and limitations in clinical dosimetry will be analysed. Optimisation and minimization	•	ū			
o. ao a	examinations, dose determination based on activity of applied radiopharmaceutical.	0. 0.000.000 000.	2 o 7			
16KPR	Clinical Propaedeutic	ZK	2			
	miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical					
16NMKBS	Clinical Training - Nuclear Medicine	KZ	4			
	of radiological physics in nuclear medicine organized together with clinical partners. Overview of the duties, activities and responsibil		al physicist.			
Obtaining a basic	c idea of the activities and responsibilities of the radiological physicist and technicist. Practical (dosimetric and/or other) routine tasks	under the supervis	sion of an			
experienced radiolo	gical physicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spacial linearity of the gammacamera, de	ead time of the gam	nmacamera,			
	uniformity of the gammacamera, etc.					
16PADR	Practical Analysis of Data and Risks	KZ	4			
	urse is to provide students with a summary of basic theoretical knowledge, especially in the field of probability and statistics, useful for		=			
main content of the	e course is practical application of theoretical procedures, especially data analysis using available software solution. Students will lea	rn to perform com	prehensive			
1000700	analysis and evaluation of data and risks.	147				
16PDZBS	Practicum in Detection and Dosimetry of Ionizing Radiation	KZ	4			
Subject consists (of practical exercises. They should learn students to operate nuclear instrumentation common in praxis, and also to do measurement future jobs.	s, which may be pa	art of their			
16PSE	Topical Dosimetry Seminar	7	2			
	posed 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					
dosimetry, but s	students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during the	he studies and afte	erwards.			
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 contract of the current approaches but also points to future developments.	course is accepted	as training,			
	which allows obtaining special competence in radiation protection and learner receives appropriate certificate.					
16RDKBS	Clinical Training - X-Ray Diagnostics	KZ	4			
_	d of radiological physics in X-ray diagnostics organized together with clinical partners. Overview of duties, activities and responsibiliti	-				
	clinical environment and its specifications. Practical (dosimetric and/or other) routine tasks under the supervision of an experienced		_			
· · · · · · · · · · · · · · · · · · ·	ect setup of the X-ray device (dental, panoramatic, radiographic, fluoroscopic, mammographic, CT), QA tests, image optimization, che surement of the patient dose (TL dosimetry), indirect measurement of the patient dose (ion chamber, DAP meter, semiconductor+rec	=	er, direct			
16REB	Effects of Ionizing Radiation on Substance	ZK	2			
	s, track, stages of radiolysis, radiation chemical yield, experiments in radiolysis, classical methods, pulse radiolysis, EPR, some primary					
	ctrons, free radicals, radiolysis of gases, water, water solutions, organic liquids, radiolysis of solid materials, polymers, glasses, metals a					
	sterilisation, crosslinking and degradation of polymers, treatment of foods.	-				
16RTDG	Radiological Technics - Diagnostic Radiology	Z,ZK	3			
X-ray unit, X-ray	production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalit	ies, computed tom	ography,			
	dosimetry and radiation protection in diagnostic and interventional radiology, quality control.					
16RTKBS	Clinical Training - Radiotherapy	KZ	4			
	Training in the field of radiological physics in radiotherapy organized together with clinical partners.					
16RTNM	Radilogical Technology-Nuclear Medicine	Z,ZK	3			
Radionuclide an	d radiopharmaceutical production, radiation detection in nuclear medicine, scintigraphy - bacis principles, tomographic imaging - SPI		ographic			
	recontruction in nuclear medicine, image quality in nuclear medicine, quantification in nuclear medicine, Internal radiation dosir					
16RTRTB	Radiological Technology-Radiotherapy	Z,ZK	3			
Curriculum introduc	ces radiological technical aspects in radiotherapy. Units for external radiotherapy and brachytherapy, treatment planning, quality assur	rance, imaging in r	adiotherapy			
100551	are introduced.	_				
16SED1	Dosimetry Seminar 1	Z	2			
-	pposed to motivate the student's interest in the field of dosimetry, especially in medical physics. Introductory lectures will be devoted s. The following lectures are given by the former students of DDAIR, who are currently employed in various organizations (SÚRO, v.v.i					
a baorieioi 5 (1165)5	MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o.).	., JUI AV IN V.V.I.	, 00 v 62,			
16SEMB	Bachelor Thesis Seminar	Z	2			
16SEPB	Semestral Project	Z	4			
	g an introduction into the field problematic. Work with publications, scientific databases and articles, books, internet. Researching, co		· -			
	ferent sources. Evaluation of the problem based on gained knowledge. A written paper focusing on present tasks in the field of radiol	-	-			

16TZPB Overview of Legislation in Health Care	Z	2
This course provides an overview of technical and health-care specific legal and other regulations associated with utilization of health-care devices base	_	
nuclear energy in health care. Problematics of judgement of accordance, in-market implementation, acquisition, commission, utilization, maintenance, servi- resources and problems of clinical evaluation and clinical tests. ("Law on technical requirements on products", "Law on health-care resources, Law on		
related regulations, EC directives, relevant norms - CSN, EN, ISO). Furthermore, the "Law on health services", the "Law on specific health services", sys		
people irradiated by radiation accidents. Legislation concerning radiological health professions: Laws on clinician and non-clinician health professions", and		
system of graduate, specialization and continuing education, certifications, registrations. Indication criteria for imaging modalities and radiological me	edical standards, in	cluding
determination and evaluation of patient doses, and audits of patient doses.	71/	
16UAZB Principles of Ionizing-Radiation Applications Historical outline of applications review of interaction of radiation with a matter radiation sources, detectors and instrumentation, evaluation of radiation	ZK	2
Historical outline of applications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radionupenetration and scattering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the u		
16URF1 Introductory Radiation Physics 1	Z,ZK	4
Concise review of opinions about atoms and radiation physics, relativistic and quantum properties, basic characteristics of atoms and nuclei, binding en	· '	
mass and diameter, nuclear moments, isospin, basic nuclear models, general characteristics of interaction of radiation with a matter, interaction of alpha	a, beta, gamma and	I neutrons,
penetration of radiation beams through material, radiation effects in a matter.		
16URF2 Introductory Radiation Physics 2	Z,ZK	4
General characteristics of radioactive decay, alpha decay, proton radioactivity, beta decay, emission of gamma radiation, natural radioactivity, types ar reactions, nuclear fission, transuranium elements, thermonuclear fussion.	id characteristics of	nuciear
16USRJB Introduction to Quality Management in Health Care for Bachelors	Z	2
General orientation in field of quality management. Implementation of quality control (QC) systems, implementation QC systems in a health institution, un	l l	
- System of quality management, and ISO 17025 - General requirements on qualification of reference and calibration laboratories. Requirements of total	l quality manageme	ent (TQM).
A reason of implementation ISO norms to health care. Accreditation and certification of a health institution. Preparation and procedures of certification/ac	creditation process	in a health
institution.	7 71/	
16ZBAF1 Fundamentals of Human Biology, Anatomy and Physiology 1 Organization of living systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular	Z,ZK	4 mitosis
their regulation. General human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system a		
system and physiology of respiration. Excretory and genital tract.	1 7 07	. ,
16ZBAF2 Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK	4
Heart and physiology of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood	_	of nerves.
CNS. Visual system and physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, en		
16ZDOZ1 Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, development, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionization. Fundamentals of the effects of ionizing radiation.	ations, energy trans	ier and
16ZDOZ2N Fundamentals of Radiation Dosimetry 2	Z,ZK	4
Fundamentals of biological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles a		=
in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure.		
16ZJTB Nuclear Energy Facilities and Accelerators	ZK	2
Basic scheme of nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im	portant reactor type	es, linear
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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 biological effects of ionizing radiation						
(IR) at the molecular, cellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its evaluation, basics of epidemiology.						
18PMTL	Programming in MATLAB	KZ	4			
Introducing Matlab environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis, statistics, algorithmization						
and geometric representation of results.						
18ZPRO	Basics of Programming	Z	4			
This course is intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming and with the Python						
programming language.						
TV-1	Physical Education	Z	1			
TV-2	Physical Education	Z	1			
TV-3	Physical education	Z	1			
TV-4	Physical education	Z	1			

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-07-17, time 00:55.