# 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	lioup.					
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	Ρ
01MATZ1	Mathematics, Examination 1 Radek Fu ík Radek Fu ík Radek Fu ík (Gar.)	ZK	2	-	Z	Ρ
01MATZ2	Mathematics, Examination 2 Radek Fu ík, Mat j Tušek Mat j Tušek Radek Fu ík (Gar.)	ZK	2	-	L	Ρ
01MAT1	Mathematics 1 Radek Fu ík Radek Fu ík (Gar.)	Z	4	3P+3C	Z	Р
01MAT2	Mathematics 2 Radek Fu ík Radek Fu ík Radek Fu ík (Gar.)	Z	4	3P+3C	L	Р
02MECH	Mechanics David B e Antonín Hoskovec David B e (Gar.)	Z	4	4+2	Z	Р
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David B e , Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David B e (Gar.)	ZK	2	-	Z	Ρ
16EZB	The Principles of Ethical Behavior in Health Care Ingrid Strobachová 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 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	Ρ
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	Ρ
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	Ρ
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	z	4	4C	Z	Р	
IOZPRU	Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	2	4	40	2	P	
16ZPPB	Basics of First Aid for Engineers Ji í Málek (Gar.)	Z	2	0+2	L	Р	
	ne courses of this group of Study Plan: Code=BSPRT1 Name=BS	S P_RT 1st ye	ear				
	Electricity and Magnetism	ico. Electric ourre	nt and airsui		,ZK	6 t the relativity	
	s law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectr ces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.					r the relativity	
	xperimental Laboratory		waves, iviax		KZ	4	
	ily for students who study branch Nuclear Chemistry engineering, or practically oriented	hachelor's specia	lizations of I		1	-	
	interested in the other specializations. During Experimental laboratory, students learn h				-	-	
	neasurement (acquire of different experimental procedures and routines), will teach writin						
At the same time practically	ly extend the knowledge gained in lectures on physics.	-			-		
01MATZ1 M	Athematics, Examination 1				ZK	2	
01MATZ2 M	Athematics, Examination 2				ZK	2	
01MAT1 M	Athematics 1				Z	4	
1	he study of the basics of calculus of one variable. It includes an introduction to differentia	al and integral cal	culus, with p	articular em	phasis on ap	plications in	
practical problems.							
01MAT2 M	Athematics 2				Z	4	
The course, which is the co	ontinuation of Mathematics 1, is devoted to the integration techniques, improper Rieman	in integral, introdu	iction to para	metric curv	es (especiall	y in polar	
coordinates), the basics of	sequences and infinite series, and finally to the Taylor and power series and their applic	cations.		<u>.</u>			
02MECH M	lechanics				Z	4	
	ysical quantities and units. Kinematics of a particle, basic types of motion and their supe			-	-		
	notion in a central force field, forces in non-inertial reference frames. Mechanics of a syst	tem of particles, t	wo-body pro	blems, part	icle collisions	. Mechanics	
of a rigid body, rotation.							
	lechanics - Examination				ZK	2	
	is the examination according to the plan of studies.				_		
	he Principles of Ethical Behavior in Health Care			<u>.</u>	Z	1	
	ration, respect for patient autonomy, ethical aspects of oncology care - truthfulness in ho		n, eutnanasia	a, patient riç	ints, etnical a	ispects of	
	ical aspects of genetic consultancy, health-care economica, problem summary, closing d				7	<u> </u>	
	Preparatory Week				Z	2	
	ntroductory Radiation Physics 1				,ZK	4	
	s about atoms and radiation physics, relativistic and quantum properties, basic character						
	ar moments, isospin, basic nuclear models, general characteristics of interaction of radia ams through material, radiation effects in a matter.		, interaction	or alpha, be	ila, yamma a	nu neutrons,	
	undamentals of Human Biology, Anatomy and Physiology 1			7	,ZK	4	
	ems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and	cell biology Biopo	olymers Mol	1	· .	•	
	uman anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle and		-	-			
-	respiration. Excretory and genital tract.	, ,					
16ZBAF2 F	undamentals of Human Biology, Anatomy and Physiology 2			Z	,ZK	4	
	ardiac activity. General anatomy of blood vessels, main arteries of the body, overview of	veins and physiol	ogy of blood			of nerves.	
CNS. Visual system and ph	hysiology of the visual system. Auditory and vestibular system and physiology of hearing	and balance. Ski	n, endocrine	glands.			
02ZM1 F	oundations of Physical Measurements 1				ZK	2	
The lecture is designed for	r students of physical specializations (Experimental particle physics, Physical engineerin	g, Nuclear engine	ering), howe	ever, it can l	be attended b	by students of	
-	of the lecture is to introduce the basics of physical measurements, the methods of proces	ssing and evaluat	ion of acquir	ed data on	a PC. Studen	ts learn the	
basic habits of work in a ph					î		
	Basic Work with PC				Z	2	
	acquaint students with the basic skills related to working on a personal computer. The ir					-	
	CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with of			-		-	
	MS Office. The practical content focuses mainly on further use during studies (laborator , state administration, companies). Other sections summarize basic information about con				-	-	
	ipation in exercises above 60% is a necessary condition for passing the course.	inputer naruware,	SUIIWale, ai	iu security.	Sompletion	rindependent	
· · · · · ·	Basics of Preventive Medicine for Engineers				Z	1	
	omunal environmental hygiene. Emphasis is laid on hygienic requirements of work environ	nment for selecte	s physical ar	 nd chemical			
-	and theory of hygiene. Development of hygiene. Basic constitution of hygienic compound						
	rements on work environment. Work hygiene. Physical factors in work environment: temp	-			-		
	ation: Values of parameters. Visual well-being. Heat: Basic parameters. Heat well-being.	-		-			
on human being. Chemical pollutants and aerosols in work environment: Health protection at work. Hygiene of surfaces and coatings. Security of work environment: Security of							
constructions. Fire security. Waste hygiene and their disposal: waste water, solid waste, hygiene of water. Protection of human health and health security at work: Basic terms. Actions							
to prevent illnesses. Duties in field of health protection. Categorization of work places. Declaration of risk activities. Kinds of work injuries. Registration and their evidence. Reporting							
	igation of their origins. Reporting of work injuries and deffects of technical instrumentatio	on, investigation o	t their origins	3.			
	Basics of Programming				Z	4	
This course is intended ma	ainly for students with little or no experience in programming. It familiarizes the students	with the basic cor	ncepts in pro	arammina a	and with the F	Python	
	any for students with fittle of no experience in programming, it farmanzes the students			gramming a		· .	
programming language.						-	
16ZPPB B	Basics of First Aid for Engineers				Z	2	
16ZPPB B	Basics of First Aid for Engineers ises are prepare in that way, to include the whole spectrum of urgent situations, that can				Z	2	

## 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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, <b>authors</b> and guarantors (gar.)					
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
D1MAT3	Miroslav Kolá, David Krej i ík, Severin Pošta <b>David Krej i ík</b> David Krej i ík (Gar.)	Z,ZK	4	2+2	Z	Ρ
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.)	КZ	4	4C	z	Р
16TZPB	Overview of Legislation in Health Care Petra Dostálová Petra Dostálová (Gar.)	Z	2	2+0		Ρ
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	Ρ
16ZPRD	Elementary Labs Petr Pr ša, Pavel Novotný Petr Pr ša Pavel Novotný (Gar.)	КZ	3	3L		Ρ
16ZPRA	Elementary Labs Petr Pr ša	КZ	2	0+2		Ρ
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
haractoristics of th	e courses of this group of Study Plan: Code=BSPRT2 Name=B	P D DT 2nd y		1		
16DETE D Gas filled detectors (ionizat	etectors of Ionizing Radiation tion chambers, proportional counters, Geiger-Müller counters, corona counters), organic parameters of PMT, semiconductor detectors, cryogenic detectors.			ectors, Che	ZK renkov counters	4 s, evaluat
Basic scheme of nuclear re nigh-voltage accelerators, l	uclear Energy Facilities and Accelerators eactor and nuclear power plant, chain fission reaction development, main components o linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron	0	,			,
accelerators, targets. 16KPR C	linical Propaedeutic				ZK	2
	ith the basics of anamnesis, physical examination, examinational methods of different or	gans, hematologio	cal and biocl	hemical exa		
Students are introduced int	ledical Informatics for Engineers to the basic concepts of using information technologies in medical application. They gair and back-up of data, network and data security, and how to avoid data misuse. Next, the	-			-	
	s, formats of medical data (DICOM), native medical networks (PACS), and systems of plathematics 3	acient monitoring	. Short basic		s are included.	4
	he most important notions and theorems related to the study of finite-dimensional vector	spaces.		1 4	_,,	
I	lathematics 4	•			Z,ZK	4
1	rential equations of the first order. Linear differential equations of higher order with const	ant coefficients.	Multivariable		nd its applicatio	
	on radiation imaging mathada				71/	2

 16ZOME
 Non-radiation imaging methods
 ZK
 2

 Applied anatomy, topology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological correlations - the attempt of "historical" diagnostics in the light of radiation protection. Technical potential of radiological methods and their application in radiological - anatomic - pathologic correlations. The image post processing and topology.
 Description

12NME1	Numerical Methods 1	Z,ZK	4
	basic principles of numerical mathematics important for numerical solving of problems important for physics and technology.		-
1	(ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computing	utational environm	ent MATLAB is
used as a principle prog	gramming language as a demonstration tool. The seminars are held in computer laboratory.		
16IDOB	Principles of Integrating Dosimetric Methods	ZK	2
The basic principle of in	tegrating 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 t	the advantages and disadvantages of various systems, methods of standardization of secondary benefits, focusing on applic	ations in personal	dosimetry and
environmental dosimetr	у.		
18PMTL	Programming in MATLAB	KZ	4
	ironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic an	alysis, statistics, a	algorithmization
and geometric represer	ntation of results.		
16TZPB	Overview of Legislation in Health Care	Z	2
This course provides ar	n 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	a care. Problematics of judgement of accordance, in-market implementation, acquisition, commission, utilization, maintenance, s	ervice and eviden	ce of health-care
	s of clinical evaluation and clinical tests. ("Law on technical requirements on products", "Law on health-care resources, Law of		
s .	directives, relevant norms - CSN, EN, ISO). Furthermore, the "Law on health services", the "Law on specific health services"		
1 · · ·	iation accidents. Legislation concerning radiological health professions: Laws on clinician and non-clinician health professions"	-	-
	ecialization and continuing education, certifications, registrations. Indication criteria for imaging modalities and radiological m	edical standards,	including
	uation of patient doses, and audits of patient doses.		η
16URF2	Introductory Radiation Physics 2	Z,ZK	4
	of radioactive decay, alpha decay, proton radioactivity, beta decay, emission of gamma radiation, natural radioactivity, types a	and characteristics	s of nuclear
reactions, nuclear fission	n, transuranium elements, thermonuclear fussion.		
16USRJB	Introduction to Quality Management in Health Care for Bachelors	Z	2
	eld of quality management. Implementation of quality control (QC) systems, implementation QC systems in a health institutio	-	
	nagement, and ISO 17025 - General requirements on qualification of reference and calibration laboratories. Requirements of		• • •
A reason of implementa institution.	ation ISO norms to health care. Accreditation and certification of a health institution. Preparation and procedures of certificatio	n/accreditation pro	ocess in a health
16ZPRD	Elementary Labs	KZ	3
The aim of the course is	s to acquaint students with applications of ionizing radiation detectors and also with the principles of detection and spectrom	etry of ionizing rac	liation. Ionizing
radiation detectors in th	is course is considered as a device which produces an evaluable signal at the time of interaction (unlike dosimeters). The air	n of the course is	to understand to
basic principles of dete	ction and calibration of common instruments in the field of ionizing radiation measurement.		
16ZPRA	Elementary Labs	KZ	2
Subject consists of prac	tical excersises with purpose to learn student to operate basic nuclear instrumentation and also to show them practically basic	characteristic of id	onizing radiation.
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, development, a	nd objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz	ations, energy tra	nsfer and
absorption. Fundament	als of the effects of ionizing radiation.		
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2	Z,ZK	4
Fundamentals of biolog	cal effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Princip	les and methods c	of measurements
in dosimetry. Determina	ation 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	s to acquaint students with the radiobiological basics of radiation protection. The basis of the course is an introduction to the bio	ological effects of i	onizing radiation
(IR) at the molecular, ce	ellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its eva	luation, basics of	epidemiology.
Codo of the ar			
Code of the gr	•		
Name of the g	roup: BS P_RT 3rd year		
Requirement of	credits in the group:		
	courses in the group: In this group you have to complete at least 13 cours	205	
ivedniement (	Sources in the group. In this group you have to complete at least 13 cours	60	

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 podmíněno získáním zápočtu z předmětu 26RTNM.Vykonání zápočtu z předmětu 16RTKBS je podmíněno získáním zápočtu z předmětu 26RTRTB.

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		Ρ
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

16RDKBS	Clinical Training - X-Ray Diagnostics	ΚZ	4	2XT	L	Р
16PDZBS	Lucie Súkupová Tereza Hanušová Tomáš Trojek (Gar.) Practicum in Detection and Dosimetry of Ionizing Radiation Date Dr. čo. (Car.)	KZ	4	0+4	Z	Р
01PRST	Petr Pr ša, Ji í Martin ík <b>Tereza Hanušová</b> Petr Pr ša (Gar.) <b>Probability and Statistics</b> Tomáš Hobza <b>Tomáš Hobza</b> Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	Р
16RAON	Radiation Protection Ji í Martin ík, Tomáš Trojek, Darina Trojková, Ji í H Ika, Ladislav Tomášek Ji í Martin ík Tomáš Trojek (Gar.)	ZK	4	4+0	Z	Р
16RTNM	Radilogical Technology-Nuclear Medicine Ji í Trnka Ji í Trnka 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 Pavel Dvo ák 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 the	e courses of this group of Study Plan: Code=BSPRT3 Name=BS	PRT 3rd y	ear			
16BPRT1 Ba	achelor Thesis 1 of work and under the guidance of a supervisor prepares an individual for a given topic				Z	5
16BPRT2 Ba	achelor Thesis 2 of work and under the guidance of a supervisor prepares an individual for a given topic				Z	10
-	inical Dosimetry for Technicians	ioi z semesters.			ZK	2
	diation beam dosimetry as well as radiation protection aspects will be discussed for clinic	allv used beams.	Absolute a			
	dosimetry technology and their possibilities and limitations in clinical dosimetry will be ar	-			-	
	nation based on activity of applied radiopharmaceutical.	, ,				
16NMKBS Cli	inical Training - Nuclear Medicine				KZ	4
training in the field of radiolo	ogical physics in nuclear medicine organized together with clinical partners. Overview o	f the duties, activ	ities and re			
				sponsibilities	of a radiolo	gical physici
Obtaining a basic idea of the	ogical physics in nuclear medicine organized together with clinical partners. Overview o	imetric and/or ot	her) routine	sponsibilities tasks under	of a radiolo	gical physici sion of an
Obtaining a basic idea of the experienced radiological physical p	ogical physics in nuclear medicine organized together with clinical partners. Overview or e activities and responsibilities of the radiological physicist and technicist. Practical (dos vsicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa	imetric and/or ot	her) routine	sponsibilities tasks under	of a radiolo	gical physici sion of an
Obtaining a basic idea of the experienced radiological phy uniformity of the gammacam	ogical physics in nuclear medicine organized together with clinical partners. Overview or e activities and responsibilities of the radiological physicist and technicist. Practical (dos vsicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa	imetric and/or ot	her) routine	sponsibilities e tasks under amera, dead	of a radiolo	gical physici sion of an
Obtaining a basic idea of the experienced radiological phy uniformity of the gammacam 16RTKBS Cli	ogical physics in nuclear medicine organized together with clinical partners. Overview o e activities and responsibilities of the radiological physicist and technicist. Practical (dos vsicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa- nera, etc.	imetric and/or ot	her) routine	sponsibilities tasks under amera, dead	of a radiolo the supervisitime of the g	gical physici sion of an ammacame
Obtaining a basic idea of the experienced radiological phy- uniformity of the gammacam 16RTKBS Cli Training in the field of radiolo	ogical physics in nuclear medicine organized together with clinical partners. Overview o e activities and responsibilities of the radiological physicist and technicist. Practical (dos rsicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa- nera, etc. inical Training - Radiotherapy ogical physics in radiotherapy organized together with clinical partners.	imetric and/or ot	her) routine	sponsibilities e tasks under amera, dead	of a radiolo the supervisitime of the g	gical physici sion of an ammacame
Obtaining a basic idea of the experienced radiological phy- uniformity of the gammacam 16RTKBS Cli Training in the field of radiolo 16RDKBS Cli	ogical physics in nuclear medicine organized together with clinical partners. Overview o e activities and responsibilities of the radiological physicist and technicist. Practical (dos /sicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa- nera, etc. inical Training - Radiotherapy	imetric and/or ot acial linearity of th	her) routine ne gammac	sponsibilities e tasks under amera, dead	of a radiolo the supervis time of the g	gical physici sion of an ammacame 4 4
Obtaining a basic idea of the experienced radiological phy- uniformity of the gammacam         16RTKBS       Cli         Training in the field of radiological phy- uniformity of the gammacam         16RTKBS       Cli         Training in the field of radiological phy- training phyter	ogical physics in nuclear medicine organized together with clinical partners. Overview o e activities and responsibilities of the radiological physicist and technicist. Practical (dos rsicist. Training examples: spatial and energy resolution of the gammacamera, intrinsic spa- nera, etc. inical Training - Radiotherapy ogical physics in radiotherapy organized together with clinical partners. inical Training - X-Ray Diagnostics	imetric and/or ot acial linearity of th f duties, activities	her) routine ne gammac	sponsibilities amera, dead	of a radiolo the supervi- time of the g KZ	gical physici sion of an ammacame 4 4 al physicist.
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Name of the block: Compulsory elective courses Minimal number of credits of the block: 0 The role of the block: PV

Code of the group: 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 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 Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová	Z	1	0+2		PV

#### Characteristics of the courses of this group of Study Plan: Code=BSSPOLVEDYRT Name=BS - Social Sciences P\_RT

00RET	Rhetoric	Z	1				
The course is focused o	The course is focused on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the composition of public speech						
as well as to its nonverb	as well as to its nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an integral part of the course.						
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
	Tutors, authors and guarantors (gar.)					
04XAMZK	English for Intermediate Students Examination Jana Ková ová, Slav na Brownová Jana Ková ová	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová	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 V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

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

04XAMZK	English for Intermediate Students Examination	ZK	4				
The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral							
(20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses.							
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 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							
only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.							

	71/	4
04XCESMZK Czech for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESM1,2,3 course	s and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	714	
04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESP1,2,3 courses	and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XFMZK French for Intermediate Students Examination	ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents	of FM1-FM3. The	e examination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.		
04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part	t and is organized	d according to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading.		
04XFZZK French for Beginners Examination	ZK	3
The content is the examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination consisting of oral and written part.	mination is ruled t	by the document
Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNMZK German for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination	on consisting of tw	vo parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assess	sment. More detai	led information
is to be obtained from the teacher.		
04XNPZK German for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examinatio	n consisting of tw	o parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrade	ed assessment. M	ore detailed
information is to be obtained from the teacher.		
04XRMZK Russian for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	ledge and skills a	cquired in RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct	-	
04XRPZK Russian for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know		•
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructi		
04XRZZK Russian for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know		Ũ
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instruction	-	-
	-	4
	ZK	
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written and oral; to be eligible for the written part	n part, students w	iii nave oblaineu
non-graded assessment for course SM3.Oral examination follows the written part.	71/	4
04XSPZK   Spanish for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite the study plan.	for admission to o	rai part is having
passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.		-
04XSZZK Spanish for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral e	examination only i	f he/she has
passed the written examination test.		

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

Code of the group: 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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) **History of Physics 1** 02DEF1 Ζ Ζ 2 2+0 V Igor Jex Igor Jex (Gar.) English Conversation Ζ L 04AKS 1 0+2 V Jana Ková ová Jana Ková ová (Gar.) **Essentials of High School Course 1** 00MAM1 Ζ 1 0+1 V David B e **Essentials of High School Math Course 2** 00MAM2 Ζ 1 0+1 V Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.) Numerical Methods 2 01NME2 ΚZ 2 L 2+0 V Michal Beneš Michal Beneš Michal Beneš (Gar.) **General Chemistry 1** Ζ 15CH1 Ζ 3 2+1 v Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)

	Concrel Chemistry 2		1	1		1
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 (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 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	Z	2	0+2		V
TV-1	Kate ina Pila ová Kate ina Pila ová (Gar.) Physical Education	Z	1		Z	v
TV-2	Physical Education	Z	1		L	v
TV-3	Physical education	Z	1	0+2	Z	v
TV-4		Z	1	0+2	L	V
1 V-4	Physical education		1	0+2	L	
12UNXAP	Introduction to UNIX Milan Kucha ik 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 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.)	ΚZ	4	2P+2C	L	V
02ZM1FoThe lecture is designed for sother branches. The goal ofbasic habits of work in a phy02DEF1Physics and its place in the s	story of Physics 1 system of sciences. The relationship of man and nature. Natural sciences in ancient Or	g, Nuclear engine sing and evaluat ientand Greece,	eering), hov ion of acqu Greek natu	vever, it can b ired data on a	a PC. Studen Z ers, Aristotle	ts learn the 2 . Physics in
as experimental science. Ne	Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E wton and his work.	siuno. Copernicu	is, repier, e	allieo, nuyge	ens. The birth	or physics
04AKS En The course will develop the their vocabulary for various of	glish Conversation student's communication skills acquired throughout their previous studies. It aims to im communication situations and will master their communication strategy. They will also p	ractise their liste	ning skills i	n order to bet		•
00MAM1 Es	vill be trained to express their ideas clearly and according to current English usage, an sentials of High School Course 1	u become a mor	e connaent	эреакег.	Z	1
	nathematical concepts and methods used in the introductory physics course.				7	
00MAM2   Es Review of basics of high sch	sentials of High School Math Course 2 ool mathematics.				Z	1
	merical Methods 2 nerical solution of boundary-value problems and intial-boundary-value problems for ordir	ary and partial d	ifferential o		KZ	2
	initial-value problems and finite-difference methods for elliptic, parabolic and first-order					
15CH1 Ge	neral Chemistry 1				Z	3
The most important concept solved in exercises.	s, quantities and units used in chemistry are introduced in the course General Chemist	ry I. Their signific	cance and p	oractical use a	are illustrated	by examples
The subject is the continuation	neral Chemistry 2 on of the course General chemistry I. The main attention is paid to general principles g s is not restricted only to chemical processes is documented. The significance and pra	-	-	s. Using vario	-	
in exercises. 16PADR Pra	actical Analysis of Data and Risks				KZ	4
	rovide students with a summary of basic theoretical knowledge, especially in the field	of probability and	statistics.			-
	s practical application of theoretical procedures, especially data analysis using available					
analysis and evaluation of da	ata and risks.					
	nciples of Ionizing-Radiation Applications				ZK	2
	ons, review of interaction of radiation with a matter, radiation sources, detectors and ins					
penetration and scattering o	f radiation beams, selected radioanalytical methods, tracer methods, radionuclide datin	ig, turther possib	nuties for the	e use of ioniz	ing radiation.	

40005		7	2			
16PSE	Topical Dosimetry Seminar	Z	_			
The seminary is supposed to motivate the students interest in the field of dosimetry and provide basic information about different applications of ionizing radiation in science, in research and in human life. The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or in various organizations (SÚRO, v.v.i., ÚJF AV R						
v.v.i., ÚJV ež, MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research and current topics in the field of						
	will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during the					
01PSL	LaTeX - Publication Instrument					
	the basics and facilities of computer typography, particularly to the system LaTeX	Z	2			
		71/	0			
16REB	Effects of Ionizing Radiation on Substance	ZK	2			
	ck, stages of radiolysis, radiation chemical yield, experiments in radiolysis, classical methods, pulse radiolysis, EPR, some prin		-			
	is, free radicals, radiolysis of gases, water, water solutions, organic liquids, radiolysis of solid materials, polymers, glasses, meta g and degradation of polymers, treatment of foods.	is and alloys, radia	ation technology,			
		7	4			
16SEPB	Semestral Project	Z /	4			
	ntroduction into the field problematic. Work with publications, scientific databases and articles, books, internet. Researching, Evaluation of the problem based on gained knowledge. A written paper focusing on present tasks in the field of radiological e	•	mation gained			
		<u> </u>	0			
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					
	following lectures are given by the former students of DDAIR, who are currently employed in various organizations (SÚRO, v	V.V.I., UJF AV R	7.v.i., UJV ez,			
	lce, FN v Motole, PTC Czech s.r.o.).	7	4			
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					
	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working					
	shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard	-				
	networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c	omputer. Network	services:			
	scp, etc. Network applications	714				
16AMMB	Fundamentals of Analytical Measurement Methods	ZK	2			
	cal performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, ti		-			
	etry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-	ay structural anal	ysis, nuclear			
-	spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography.					
12ZEL1	Basic Electronics 1	Z,ZK	3			
	imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir	-				
	c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effective					
12ZEL2	Basic Electronics 2	Z,ZK	3			
	with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic					
16ZONK	Basics of Oncology	Z	2			
	and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the b					
	ation to tumorigenesis proto-oncogenes, oncogenes, anti-oncogenes 5. Tumour microenvironment - hypoxia, angiogenesis a					
-	and metastatic behaviour of tumours 7. Tumour types and their classification (TNM, Gleason) 8. Tumour histology, biopsies, tu	Imour markers 9.1	Jiagnostics an			
	methods 10.Cancer treatment and its success rate	7	0			
16ZRAO	Basics of Radiation Protection	Z	2 In the allow aritical			
	to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how	•				
	ctive units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not require		uge. 4			
16ZOZ	Sources of Irradiation and Environment	KZ	-			
	n overview of the usage of ionizing radiation from its discovery and first applications to modern methods. It allows the student usage. The subject deals with the fundamental issues related to ionizing radiation and the safety of dealing with the sources c	-	-			
-	usage. The subject deals with the fundamental issues related to forizing radiation and the safety of dealing with the sources c ng the data and subsequent presentation of the results.		initiaes plactical			
exercises with brocessi	nd 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:

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

04XAP2	English for Advanced Students P2 Jana Ková ová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 Jana Ková ová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESM3	Czech for Foreigners - Intermediate 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP1	Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP2	Czech for Foreigners - Advanced 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V

04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (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=BSPJAZYKYZAP I	Name=BS P i	azvkv za	D		1
· · · · · · · · · · · · · · · · · · ·	lish for Intermediate Students M1		<u>a=jnj =a</u>	<u>~</u>	Z	2
			4h - AO I	- ( + +		
	Idents who have successfully completed the full secondary school English language				•	
	CEFR). It provides an introduction into English for Specific and Academic Purposes (	-			-	
professional oral and written of	communication situations. Thus it covers topics related to the student's life and needs	s as well as topics	of subtechr	nical interest	t. Attention is	also paid to
extending the knowledge of g	rammar issues used in EAP.					
04XAM2 End	lish for Intermediate Students M2				7	2
		abaical taxta faa			—	_
	student to have completed the AM1 course. It develops their skills for work with subte		•	•		
and lexical items typical of ES	P and EAP (e.g., definition, existence and classification of phenomena, object descript	ions). Part of the c	ourse is also	o guided wri	ting. If necess	ary, grammar
revision is included.						
04XAM3 End	lish for Intermediate Students M3				Z	2
				 	- 1	_
	that enable students to cope with features typical of professional style. Increasing atte					•
	texts. Great emphasis is placed on distinguishing different levels of formal and inform					
equivalents. The course also	ncludes studying abstracts and rules for writing them as well as basic rules for prepa	ring and giving a s	short preser	ntation on a	chosen topic	related to the
student's field.						
	lish for Advanced Students P1				7	
04XAP1 Eng	lish for Advanced Students P1	course (et leget th		of the Comp		2
04XAP1 Eng The course is designed for st	udents who have successfully completed the full secondary school English language				non Europear	2 n Framework
04XAP1 Eng The course is designed for st					non Europear	2 n Framework
04XAP1 Eng The course is designed for str of Reference for Languages -	udents who have successfully completed the full secondary school English language	(ESP, EAP), i.e., i	nto the fund	amentals of	non Europear vocabulary, f	2 n Framework functions,
04XAP1 Eng The course is designed for str of Reference for Languages - grammar, and style typical of	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes	(ESP, EAP), i.e., i thematics and phy	nto the fund /sics, definit	amentals of ions, graph	non Europear vocabulary, f descriptions,	2 n Framework functions, etc). It also
04XAP1 Eng The course is designed for str of Reference for Languages - grammar, and style typical of covers professional oral and w	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mai ritten communication on topics related to the undergraduate's life and needs. It develop	(ESP, EAP), i.e., i thematics and phy	nto the fund /sics, definit	amentals of ions, graph	non Europear vocabulary, t descriptions,	2 n Framework functions, etc). It also
04XAP1 Eng The course is designed for str of Reference for Languages - grammar, and style typical of covers professional oral and w polite request). If necessary, r	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in main ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included.	(ESP, EAP), i.e., i thematics and phy	nto the fund /sics, definit	amentals of ions, graph	non Europear vocabulary, t descriptions, g a CV, letter	2 n Framework functions, etc). It also of application,
04XAP1EngThe course is designed for strof Reference for Languages -grammar, and style typical ofcovers professional oral and wpolite request). If necessary, r04XAP2Eng	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mar ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included. Jish for Advanced Students P2	(ESP, EAP), i.e., i thematics and phy os skills for free pro	nto the fund /sics, definit ofessional w	amentals of ions, graph riting (writin	non Europear i vocabulary, t descriptions, g a CV, letter Z	2 n Framework functions, etc). It also of application, 2
04XAP1EngThe course is designed for strof Reference for Languages -grammar, and style typical ofcovers professional oral and wpolite request). If necessary, r04XAP2Eng	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in main ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included.	(ESP, EAP), i.e., i thematics and phy os skills for free pro	nto the fund /sics, definit ofessional w	amentals of ions, graph riting (writin	non Europear i vocabulary, t descriptions, g a CV, letter Z	2 n Framework functions, etc). It also of application, 2
04XAP1EngThe course is designed for strof Reference for Languages -grammar, and style typical ofcovers professional oral and wpolite request). If necessary, r04XAP2The AP2 course is based on a	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mar ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included. Jish for Advanced Students P2	(ESP, EAP), i.e., i thematics and phy os skills for free pro with professional	nto the fund vsics, definit ofessional w texts of cho	amentals of ions, graph riting (writin	non Europear i vocabulary, t descriptions, g a CV, letter Z	2 n Framework functions, etc). It also of application, 2 . According to
04XAP1     Eng       The course is designed for str     of Reference for Languages -       grammar, and style typical of     covers professional oral and w       polite request). If necessary, r     04XAP2       The AP2 course is based on the students' needs it concern	udents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in mai ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included. Jish for Advanced Students P2 AP1, thus extending the student's skills for working with subtechnical texts, and even	(ESP, EAP), i.e., i thematics and phy os skills for free pro- with professional ntactic structures a	nto the fund vsics, definit ofessional w texts of cho and typical r	amentals of ions, graph riting (writin sen branche hetorical fui	z of science nctions (e.g.,	2 n Framework functions, etc). It also of application, 2 . According to various types
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04XAP1EngThe course is designed for strof Reference for Languages -grammar, and style typical ofcovers professional oral and wpolite request). If necessary, r04XAP2EngThe AP2 course is based on Aof descriptions, and, if possibThe course extends the studeeparagraph structure, linking, of04XAP3EngThe AP3 course is based on Acommunication skills and funcalso preparing a project on acommunication.04XCESZ1CzeThe language and communicbasic communication topics.04XCESZ3CzeThe language and communicbasic correct pronunciation arfrequent types of dialogue. Th1.04XCESM1Cze	Adents who have successfully completed the full secondary school English language CEFR). It provides an introduction into English for Specific and Academic Purposes professional oral and written communication situations (fundamentals of terms in main ritten communication on topics related to the undergraduate's life and needs. It develop evision of selected grammar topics is included. <b>Jish for Advanced Students P2</b> AP1, thus extending the student's skills for working with subtechnical texts, and even trates on chosen grammar topics, but mainly intends to develop understanding of syr le, a case study). Increasing emphasis is placed on the undergraduate's independent int's subtechnical vocabulary, and includes fundamental notions of chosen branches of tohesion and coherence in texts. <b>Jish for Advanced Students P3</b> AP2 and expects the student to work without any guidance with authentic professional ctions (e.g., expressing an opinion, agreement, and objections; taking part in discussi given or chosen topic and presenting it. The course places emphasis on distinguishin <b>ech for Foreigners - Beginners 1</b> udents of the English programme. Students will become acquainted with the main cha peaking skills. The course focuses on pronunciation exercises, simple social phrases, roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová. <b>ech for Foreigners - Beginners 2</b> ation competences acquired in CES21 are further developed. Students deepen their 'he course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová. <b>ech for Foreigners - Beginners 3</b> he language and communication competences acquired in the XCES21 and XCES2 and deepening grammar, features through practice, as well as introducing the Czech co ey also practise understanding texts in terms of main ideas or looking for specific deta	(ESP, EAP), i.e., i thematics and phy os skills for free pro- with professional ntactic structures a t work with and re of science. It is for materials and to ir ion, note-taking; s ing levels of formal aracteristics of Cz, , and oral and write knowledge of the 2 courses. The tea ulture. Students an ails in texts. The co	nto the fund vsics, definit ofessional w texts of cho and typical r ading of ling used on for ummarizing and information ech (phonet ten communi- declension aching focus re asked to p urse covers	amentals of ions, graph riting (writin sen branch hetorical fur yuistically m mal writing i text. It incluc , writing an al language ic and gram nication in th and conjuga ses on build produce sim roughly les	Anon Europear i vocabulary, f descriptions, g a CV, letter Z es of science inctions (e.g., ore demandir including the Z les training or abstract) and both in oral a Z mar features; ne most comr Z ation system a Z ing up basic v sons 5-7 in Z	2 n Framework functions, etc). It also of application, 2 . According to various types ng materials. sentence and 2 ral and written 2 and they will non everyday 2 and practise 2 vocabulary, they practise eština expres 2

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04XCESM2 Czech for Foreigners - Intermediate 2	Z	2
The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and rea	iding skills and tra	ins the student
in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3 Czech for Foreigners - Intermediate 3	Z	2
The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec		
	any locased on a	tyliotico and
lexicology and on developing the student's writing skills.		
04XCESP1 Czech for Foreign Students - Advanced 1	Z	2
The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Eu	uropean Framewo	rk of Reference.
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures typical of	science. Students	are taught the
basics of functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies and	Student Life. Writ	ten practice
includes communication with teachers and faculty administrators.		
	7	
04XCESP2 Czech for Foreigners - Advanced 2	Z	2
This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a	nd specialist texts	placing greater
emphasis on individual work.		
04XCESP3 Czech for Foreigners - Advanced 3	Z	2
The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation		
	n, and, initially, pre	
student's project. Writing skills necessary for professional communication are trained.	r	
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in bo	th written and ora	I form. Students
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr	ansmit general an	nd technical
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy	-	
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, per	-	
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work		
04XFM2 French for Intermediate Students M2	Z	2
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	texts, features typ	ical for technical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	ence and technolc	av. French
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		3,,
	7	
04XFM3 French for Intermediate Students M3	Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (	subordinate and ir	nfinitive clauses,
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl	ass. The paper is	linked to the
field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	ork compiled from	French articles
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and o	coherence.	
	7	2
04XFP1   French for Advanced Students P1	<u> </u>	_
FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both with the second secon		
be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gene	eral and technical	information and
to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re-	peated and expan	nded: subjonctif,
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactiona	al letters, CV, pers	onal statement,
request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topi	ics of specializatic	n: mathematics,
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.	·	ŕ
	7	
04XFP2 French for Advanced Students P2	Z	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication or	n given topics. Fea	atures typical of
technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3 French for Advanded Students P3	7	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	engineering envir	onment Special
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cov	ers a tecrifical/a	pplied science
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFZ1 French for Beginners Z1	Z	2
French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in s	socializing and in	professional life.
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able	e to communicate	at elementary
level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda		-
(Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions,		-
	-	-
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat	ion and grammar.	
04XFZ2 French for Beginners Z2	Z	2
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of t	he textbook: Prav	da - Pravdová :
French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement		
thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	0	, , , , , , , , , , , , , , , , , , , ,
How does the machine work? A few expressions concerning the study. Name of University and Faculty.	dification: opcome	
04XFZ3 French for Beginners Z3	Z	2
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F	ravdová: French f	or Beginners.
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in	formation and lou	Id as part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4 French for Beginners Z4	Z	2
	I I	
The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The c		
lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lec		
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shop	pping, weather, ur	niversity in our
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
04XFZ5 French for Beginners Z5	Z	2
All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The		
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla	auses, typical con	junctions,
subjunctive clauses, gerund, passive,		

04XNM2	German for Intermediate Students M2	Z	2
The course introduces	other more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between techno	logy and society,
° °	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	natically revises o	ther grammatical
	for professional discourse (participles, relative clauses).		
04XNM1	German for Intermediate Students M1	Z	2
-	urse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and		
-	ses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Reput		
	ogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist	ts, and the fundar	nentals of IT
	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	_	
04XNM3	German for Intermediate Students M3	Z	2
	other more complex grammatical structures and their application in communication based on technical texts, such as the relation		
Ŭ	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	0,7	
	rmation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	natically revises o	ther grammatical
	for professional discourse (participles, relative clauses).	_	2
04XNP1	German for Advanced Students P1	Z	2
	bod grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le		
	nen focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for	,	
-	structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	practical everyday	communication,
i.e., telephoning.	O among fair A diamaged Officiality DO	7	0
04XNP2	German for Advanced Students P2	Z	2
	e students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	° °	
	oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and	a practising format	communication,
	XV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	7	0
04XNP3	German for Advanced Students P3	Z	2
	3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a va	-	
	ar accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v		
	ring, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used	-	
	process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The	ne course also inc	ludes translation
practice to and from Ge			0
04XRM1	Russian for Intermediate Students M1	Z	2
, e	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphab		
-	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask		
	nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	level of the RZ2	course. The
Contents and scope of	the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.		
		_	_
04XRM2	Russian for Intermediate Students M2	Z	2
04XRM2 The course is based or	Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	1	
04XRM2 The course is based or 04XRM3	Russian for Intermediate Students M2         the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3	Z	2
04XRM2 The course is based or 04XRM3 The course develops th	Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	Z	2
04XRM2 The course is based or 04XRM3 The course develops th in the timetable.	Russian for Intermediate Students M2         the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, here	Z	2 the time allotted
04XRM2 The course is based or 04XRM3 The course develops th in the timetable. 04XRP1	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for Advanced Students P1	Z owever, for half of	2 the time allotted 2
04XRM2 The course is based or 04XRM3 The course develops th in the timetable. 04XRP1 The entrance requirem	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pro-	Z owever, for half of	2 the time allotted 2
04XRM2 The course is based or 04XRM3 The course develops th in the timetable. 04XRP1 The entrance requirem	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for Advanced Students P1	Z owever, for half of	2 the time allotted 2
04XRM2 The course is based or 04XRM3 The course develops th in the timetable. 04XRP1 The entrance requirem	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pro-	Z owever, for half of	2 the time allotted 2
04XRM2 The course is based or 04XRM3 The course develops the in the timetable. 04XRP1 The entrance requirem structures, understand 04XRP2	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, here is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, program the fundamentals of technical language and training writing skills.	Z owever, for half of Z acticing more diffi	2 the time allotted 2 cult grammar 2
04XRM2 The course is based or 04XRM3 The course develops the in the timetable. 04XRP1 The entrance requirem structures, understand 04XRP2 The course is based or	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, here is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, program the fundamentals of technical language and training writing skills.         Russian for Advanced Students P1         end for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, program the fundamentals of technical language and training writing skills.         Russian for Advanced Students P2         n RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ut on independent oral and written communication.	Z owever, for half of Z acticing more diffi	2 the time allotted 2 cult grammar 2
04XRM2 The course is based or 04XRM3 The course develops the in the timetable. 04XRP1 The entrance requirem structures, understand 04XRP2 The course is based or	Russian for Intermediate Students M2         a the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, here is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, provide the fundamentals of technical language and training writing skills.         Russian for Advanced Students P1         end for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, provide the fundamentals of technical language and training writing skills.         Russian for Advanced Students P2         ncm1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, partis participles, passives, participles, passives, partis participles	Z owever, for half of Z acticing more diffi	2 the time allotted 2 cult grammar 2
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04XRM2 The course is based or 04XRM3 The course develops the in the timetable. 04XRP1 The entrance requirem structures, understand 04XRP2 The course is based or structures). Stress is pr 04XRP3 The course is based or courses require good p these skills. Further stu develop their subtechn technical topics. 04XRZ1 The course represents the Russian alphabet ( a short text with marke 04XRZ2 The second semester of able to communicate u master further gramma 04XRZ3 The course is based or and listening) and intro understood, and to exp 04XRZ4 The course is based or	Russian for Intermediate Students M2         the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         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         Russian for Advanced Students P1         ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, programmatical structures important for understanding technical texts (verbal adjectives, participles, passives, at on independent oral and written communication.         Russian for Advanced Students P3         Russian for Beginners Z1         the first stage of the five-semester programme, its final aim being reading, correct communication in everyday situations).         Russian for Beginners Z1         the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ for beginners Z3         right short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tast sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tast sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will trast sevent	Z         owever, for half of         Z         acticing more diffi         Z         verb aspects, spectrations, translation).         The courses develor         written interpreta         accurately and with         Z         sian. Thus it begin         sian. Thus it begin         isian. Thus it begin         Lubtechnical texts.         also develop thei         Z         ning various forms         is a certain percent	2 the time allotted 2 cult grammar 2 ecific syntactic 2 The RP1 - RP3 elop and expand tion). Students th confidence on 2 s with mastering be able to read 2 Students will be r vocabulary and 2 of reading skills so as to be 2 age of unfamiliar
04XRM2 The course is based or 04XRM3 The course develops the in the timetable. 04XRP1 The entrance requirem structures, understandi 04XRP2 The course is based or structures). Stress is pe 04XRP3 The course is based or courses require good pe these skills. Further stu develop their subtechn technical topics. 04XRZ1 The course represents the Russian alphabet ( a short text with marke 04XRZ2 The second semester of able to communicate u master further gramma 04XRZ3 The course is based or and listening) and intro understood, and to exp 04XRZ4 The course is based or words, oral communicate	Russian for Intermediate Students M2         the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.         Russian for Intermediate Students M3         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         Russian for Advanced Students P1         ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, program the fundamentals of technical language and training writing skills.         Russian for Advanced Students P2         RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to independent oral and written communication.         RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphras revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).         dy is aimed at professional and technical skills (reading technical literature according to the students 'specialization, oral and scientific texts (reading and understanding professional texts written in Russ for beginners Z1         the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ for beginners Z2         of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sci sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will titcal	Z         owever, for half of         Z         acticing more diffi         Z         verb aspects, spe         Z         sing, translation).         The courses develor         written interpreta         accurately and wi         Z         sian. Thus it begin         sian. Thus it begin         ing). Students wil         Z         ubtechnical texts.         also develop thei         Z         ning various forms         a certain percent         b, differences in	2 the time allotted 2 cult grammar 2 ecific syntactic 2 The RP1 - RP3 elop and expand tion). Students th confidence on 2 s with mastering be able to read 2 Students will be r vocabulary and 2 of reading skills so as to be 2 age of unfamiliar verb patterns
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04XRZ5 Russian for Beginners Z5	7	2
The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understan	_	_
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Co		
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication		
passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite requestional states).	· ·	es, participies,
04XSM1 Spanish for Intermediate Students M1	Z	2
The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-seme	_	-
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negat		
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or		-
04XSM2 Spanish for Intermediate Students M3	Z	2
The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for s	_	_
able to work with specialized texts on the Internet.		
04XSM3 Spanish for Intermediate Students M3	7	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acade	-	_
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 sh		
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	7	2
Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication	-	_
of CEFR.		
04XSP2 Spanish for Advanced Students P2	7	2
Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syr	—	_
written communication.		·
04XSP3 Spanish for Advanced Students P3	Z	2
Course SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is for	ocused on writter	o communication
based on what students will need in their career.		
04XSZ1 Spanish for Beginners Z1	Z	2
Course SZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	ental grammar st	ructures 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 ar	nd will develop it.	
04XSZ2 Spanish for Beginners Students Z2	Z	2
Course SZ2 is based on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and le	xis will be choser	n so as to enable
them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and oth	ners such as the	Czech Republic.
Realia of Spanish-speaking countries are also included.		
04XSZ3 Spanish for Beginners Z3	Z	2
The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of	the Spanish-spe	aking countries,
mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	e). It includes writ	ten and oral
communication on a given general topic, for which the student is trained by reading texts or listening to them.		
04XSZ4 Spanish for Beginners Z4	Z	2
The course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanis		-
Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	he imperative, an	d 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	Z	2
The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish	for specific purp	oses. In its final
part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination.		

# List of courses of this pass:

Code	Name of the course	Completion	Credits
00MAM1	Essentials of High School Course 1	Z	1
	Students are introduced to mathematical concepts and methods used in the introductory physics course.		1
00MAM2	Essentials of High School Math Course 2	Z	1
	Review of basics of high school mathematics.		
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focu	used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of put	blic speech
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are a	n integral part of the	e course.
00UPSY	Introduction to Psychology	Z	1
01MAT1	Mathematics 1	Z	4
The course is deve	ted to the study of the basics of calculus of one variable. It includes an introduction to differential and integral calculus, with particul practical problems.	ar emphasis on app	blications in
01MAT2	Mathematics 2	Z	4
The course, which	h is the continuation of Mathematics 1, is devoted to the integration techniques, improper Riemann integral, introduction to paramet	ric curves (especial	lly 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 space	S.	
01MAT4	Mathematics 4	Z,ZK	4
Linear and nor	- i-linear differential equations of the first order. Linear differential equations of higher order with constant coefficients. Multivariable ca	lculus and its appli	cations.

01MATZ1	Mathematics, Examination 1	ZK	2
01MATZ2	Mathematics, Examination 2	ZK	2
01NME2	Numerical Methods 2	KZ	2
	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.		s converting
	dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic and first-order hyperbolic partial diff		
01PRST	Probability and Statistics	Z,ZK	
	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one are treated and basic limit the	-	-
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testin		
01PSL	LaTeX - Publication Instrument	Z	2
	The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX		1
02DEF1	History of Physics 1	Z	2
, ,	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo		
Helenistic period,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, H	luygens. The birth	of physics
02ELMA	as experimental science. Newton and his work. 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, I		-
02MECH	Mechanics	Z	4
Introduction to ph	ysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	lving equations of	motion for
one-dimensional m	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,	particle collisions.	Mechanics
	of a rigid body, rotation.	714	
02MECHZ	Mechanics - Examination The content of the subject is the examination according to the plan of studies.	ZK	2
02PRAK	Experimental Laboratory	KZ	4
	primarily for students who study branch Nuclear Chemistry engineering, or practically oriented bachelor's specializations of branch		-
	students interested in the other specializations. During Experimental laboratory, students learn how to prepare for experiments (inclu		
the implementation	of the measurement (acquire of different experimental procedures and routines), will teach writing the records of measurement, process	ssing and evaluation	on of results.
	At the same time practically extend the knowledge gained in lectures on physics.		
02ZM1	Foundations of Physical Measurements 1	ZK	2
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c	-	
other branches. Ir	ne goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data basic habits of work in a physics lab.	a on a PC. Student	ts learn the
04AKS	English Conversation	Z	1
	velop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication	-	will develop
	r various communication situations and will master their communication strategy. They will also practise their listening skills in order t		
	iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more con		
04XAM1	English for Intermediate Students M1	Z	2
-	aned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C Inguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of		
	nd written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical intr		
	extending the knowledge of grammar issues used in EAP.		aloo pala lo
04XAM2	English for Intermediate Students M2	Z	2
The AM2 course e	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 typ	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided	writing. If necessa	iry, grammar
	revision is included.	_	
04XAM3	English for Intermediate Students M3 s the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	Z	2
	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		•
s .	urse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation o		
	student's field.		
04XAMZK	English for Intermediate Students Examination	ZK	4
	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts		<ol> <li>and oral</li> </ol>
	30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three E	nglish courses.	
04XAP1	English for Advanced Students P1 gned for students who have successfully completed the full secondary school English language course (at least the B1 level of the C		Eramework
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament	-	
	e typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gu	=	
covers professional	oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w	riting a CV, letter of	application,
	polite request). If necessary, revision of selected grammar topics is included.	_	
04XAP2	English for Advanced Students P2	Z	2
	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brai s it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorica		-
	d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical		
	s the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writi	-	-
	paragraph structure, linking, cohesion and coherence in texts.		1
04XAP3	English for Advanced Students P3	Z	2
	based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in	-	
	ills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lang	-	-
	communication.	<u>.</u>	

04XAPZK	English for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a		
	courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from	1	
04XCESM1 The course is focus	Czech for Foreigners - Intermediate 1 sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the si social situations.	Z tudent's vocabulary	2 y for various
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readir in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.	ng skills and trains	the student
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
The last course	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia lexicology and on developing the student's writing skills.	ally focused on styl	istics and
04XCESMZK		ZK	. 4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	_ Z _	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sci		
	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S includes communication with teachers and faculty administrators.		-
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and emphasis on individual work.	specialist texts plac	_
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a student's project. Writing skills necessary for professional communication are trained.	_	
04XCESPZK		ZK	4
	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	I —·· I	-
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features) a	and they will
acquire basic lang	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	in the most commo	on everyday
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
	d communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and cor 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 er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on		2 ocobulory
fixing correct pronu	inclation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	simple texts and th	ney practise
04XCESZZK	Czech for Foreigners Beginners - Examination examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X		4
	only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XFM1	French for Intermediate Students M1	Z	2
	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra		
	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste	-	
	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor	-	
	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, we French for Intermediate Students M2		
04XFM2 Course FM2 builds	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text	Z	2 for technical
	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
The course is focus	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub	ordinate and infinit	ive clauses,
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-classifier and search and s		
	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi		
04XFMZK	French for Intermediate Students Examination	ZK	4
The content is the	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o consists of a written and oral part and is organized according to Examination Instructions, a document available on the wet		amination
04XFP1	French for Advanced Students P1	Z	2
	se The objective of this three-semester course is to improve and further develop communication in the French language in both writte		
	nicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repe		
-	aparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le	-	-
	an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation	of specialization: m	
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
	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng	jineering 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	and is organized ac	cording to
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra	ading.	
04XFZ1	French for Beginners Z1	Z	2
-	rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soci		
	es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		-
	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		-
· · ·	za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4 : introductions, pe	,	0
	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu		
04XFZ2	French for Beginners Z2		2 Droudoué i
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the iners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
-	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communicities and the stress of the str	-	
	How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3	French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra	I – I	
	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
-	i up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor	I – I	
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur		
	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp		
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet	ət.	
04XFZ5	French for Beginners Z5	Z	2
All four skills acquir	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They prevent of the prevention	esent it orally in the	e class. The
general contents	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	pics: on physics fro	om lecture
notes, success	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla	auses, typical conju	unctions,
	subjunctive clauses, gerund, passive.		
04XFZZK	French for Beginners Examination	ZK	3
The content is the	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examin	ation is ruled by the	e document
	Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNM1	German for Intermediate Students M1	Z	2
-	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and 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		Itals of T
04XNM2	German for Intermediate Students M2	Z	2
-	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	I – I	_
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and d		-
	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati		
	phenomena important for professional discourse (participles, relative clauses).	,	
04XNM3	German for Intermediate Students M3	Z	2
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	I I	
the world at the b	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	car technology etc.	Students
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati	cally revises other o	grammatical
	phenomena important for professional discourse (participles, relative clauses).		
04XNMZK	German for Intermediate Students Examination	ZK	4
The course content	t is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of	consisting of two pa	rts - written
and oral, which co	ver the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessme	ent. More detailed i	nformation
	is to be obtained from the teacher.		
04XNP1	German for Advanced Students P1	Z	2
	res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level	-	-
	se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for d	-	
	nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on pra- i.e., telephoning.	Silcal everyday com	munication,
04XNP2	German for Advanced Students P2	Z	2
	bs the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending	I I	
	t introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra	-	
	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi	-	
04XNP3	German for Advanced Students P3	Z	2
	ts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie	-	
	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	-	
	gineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.	, ,	
students are trained	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c	ourse also includes	s translation
	practice to and from German.		

04XNPZK	German for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination of		
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 information is to be obtained from the teacher.	d assessment. More	e detailed
04XRM1	Russian for Intermediate Students M1	Z	2
The course is desig	ned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet	both printed and h	andwritten),
basic vocabulary fo	r communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking	the way and giving	directions),
they can use bas	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement		urse. The
	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetat		
04XRM2	Russian for Intermediate Students M2 The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in th		2
04XRM3	Russian for Intermediate Students M3	Z	2
	bs the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, how		
	in the timetable.	71/	
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled ents 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	7	2
-	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice of the course is revision of standard language structures.	. – .	
	structures, understanding the fundamentals of technical language and training writing skills.	3	5
04XRP2	Russian for Advanced Students P2	Z	2
The course is bas	ed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	erb aspects, specifi	c syntactic
	structures). Stress is put on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasin		
	od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The	-	-
	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and w chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc	-	-
	technical topics.		
04XRPZK	Russian for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	1 1	-
- RP3. Stud	ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given inst	ructions by the tead	cher.
04XRZ1	Russian for Beginners Z1	Z	2
The course represe	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	. Thus it begins wit	h mastering
the Russian alphat	bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	). Students will be a	able to read
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
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 subto		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 subtr te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als	o develop their voc	ents will be
The second semes able to communica	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 subtr te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	o develop their voc writing.	ents will be abulary and
The second semes able to communica 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 subtr te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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	o develop their voc writing. Z	ents will be abulary and 2
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 subtr te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	o develop their voc 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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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	o develop their voc 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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be	o develop their voc 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 and listening) an 04XRZ4 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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.           Russian for Beginners Z4           d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a context shift)	o develop their voc writing. Z various forms of re able to respond so Z vertain percentage of	ents will be abulary and 2 eading skills o as to be 2 of unfamiliar
The second semes able to communica 04XRZ3 The course is base and listening) an 04XRZ4 The course is base words, oral comm	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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.           Russian for Beginners Z4           d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a constant in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verses)	o develop their voc writing. Z various forms of re able to respond so Z ertain percentage os, differences in ver	ents will be abulary and 2 eading skills o as to be 2 of unfamiliar b patterns
The second semes able to communica 04XRZ3 The course is base and listening) an 04XRZ4 The course is base words, oral comm from Czech, mod	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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.           Russian for Beginners Z4           d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a constrained to use grammar structures effectively (e.g., irregular versor dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and the stand to express the index of the second develop communication skills for everyday situations (food, travelling, free time), and the second develop communication skills for everyday situations (food, travelling, free time), and the second develop communication skills for everyday situations (food, travelling, free time), and the second develop communication skills for everyday situations (food, travelling, free time), and the second develop communication skills for everyday situations (food, travelling, free time), and the second develop communication skills for everyday situations (food, traveling, free time), and the second develop communication s	o develop their voc writing. Z o various forms of re e able to respond so Z ertain percentage os s, differences in ver and practice oral ar	ents will be abulary and 2 eading skills o as to be 2 of unfamiliar b patterns id written
The second semes able to communica 04XRZ3 The course is base and listening) an 04XRZ4 The course is base words, oral comm from Czech, mod	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 subtrate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.           Russian for Beginners Z4           d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a constrained to use grammar structures effectively (e.g., irregular versor dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), an more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g.)	o develop their voc writing. Z o various forms of re e able to respond so Z ertain percentage os s, differences in ver and practice oral ar	ents will be abulary and 2 eading skills o as to be 2 of unfamiliar b patterns id written
The second semes able to communica 04XRZ3 The course is base and listening) an 04XRZ4 The course is base words, oral comm from Czech, mon communication o	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 subter te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will als 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 d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.           Russian for Beginners Z4           d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a concication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbed dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and no especific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g. forms, look up the information from the timetable, learn about Russian holidays and typical meals.	o develop their voc writing. Z various forms of re able to respond so ertain percentage of s, differences in ver and practice oral ar ., Siberia), learn ho	ents will be abulary and 2 eading skills o as to be 2 of unfamiliar b patterns id written wy to fill in
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04XSP1	Spanish for Advanced Students P1		2
Sourse concentrates on n	of CEFR.	ourse prerequis	iles. ievei Dz
04XSP2	Spanish for Advanced Students P2	Z	2
	part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax	and focuses on	
	written communication.		
04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the final pa	rt of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focus	ed on written co	mmunicatio
0.00071/	based on what students will need in their career.	71/	
04XSPZK	Spanish for Advanced Students Examination examination Examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for ad	ZK	4
	ed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	•	artis navin
04XSZ1	Spanish for Beginners Z1	Z	2
I	ge of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental	_	1
be able to commu	nicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanis	h and will develo	op it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course SZ2 is based on c	purse SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis w	vill be chosen so	as to enabl
hem to understand short	adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others	such as the Cze	ch Republic
	Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
	burse SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the a		-
mainly of Spain. It pays	attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). communication on a given general topic, for which the student is trained by reading texts or listening to them.	It includes writte	in and orai
04XSZ4	Spanish for Beginners Z4	7	2
	ourse SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish sp	—	
	further grammar topics (perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the in	-	-
to writt	en 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	Z	2
	oplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for		es. In its fina
	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination		
04XSZZK	Spanish for Beginners Examination	ZK	3
The course content is th	e examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination consists of two parts - written and oral. Student can register for oral examination consists of two parts - written and oral.	mination only if h	ne/she has
12NME1	passed the written examination test. Numerical Methods 1	Z.ZK	4
1	asic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Meth	,	1 .
	ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computatio		-
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12UNXAP	Introduction to UNIX	Z	2
	g systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface		
	stems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with		
	nell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard too networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a cor		
x-windows. Computer	hardware sharing, mail, scp, etc. Network applications	nputer. Network	Services.
12ZEL1	Basic Electronics 1	Z,ZK	3
	nary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuit		-
	olic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effect	-	
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follows up w	vith the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic ther	mes of logical ci	rcuits field.
15CH1	General Chemistry 1	Z	3
The most important conce	pts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical us	e are illustrated	by example
1	solved in exercises.		1
15CH2	General Chemistry 2	Z,ZK	3
	ation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using va		
the validity of these princip	oles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are ill in exercises.	ustrated by exar	mples solve
		71/	2
16AMMB Basic principles, technica	Fundamentals of Analytical Measurement Methods	ZK on methods, pot	2 entiometry
	etry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray	-	
- • •	magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography.	,	
16BPRT1	Bachelor Thesis 1	Z	5
	Student on the assignment of work and under the guidance of a supervisor prepares an individual for a given topic for 2 semestic		·
16BPRT2	Bachelor Thesis 2	Z	10
	Student on the assignment of work and under the guidance of a supervisor prepares an individual for a given topic for 2 semester		
16DETE	Detectors of Ionizing Radiation	ZK	4
Gas filled detectors (ioniza	tion chambers, proportional counters, Geiger-Müller counters, corona counters), organic and inorganic scintillation detectors, Ch	erenkov counter	s, evaluation
	of light by photomultiplier, parameters of PMT, semiconductor detectors, cryogenic detectors.	7	4
16EZB	The Principles of Ethical Behavior in Health Care	Z at righta, athiaal	1
wernous of moral consid	deration, respect for patient autonomy, ethical aspects of oncology care - truthfulness in hospital consultation, euthanasia, patier assisted reproduction, ethical aspects of genetic consultancy, health-care economica, problem summary, closing discussion.	it rights, ethical	aspects of

Overview of gener	Basics of Preventive Medicine for Engineers	Z	1	
Overview of genera	al and comunal enviromental hygiene. Emphasis is laid on hygienic requirements of work environment for selectes physical and cherr	nical compounds.	General and	
	comunal hygiene: practice and theory of hygiene. Development of hygiene. Basic constitution of hygienic compounds and their organisation. Hygiene of atmosphere, land, water and			
	residences. Hygienic requirements on work environment. Work hygiene. Physical factors in work environment: temperature, humidity. Conditions of work places (air condition, air			
exchange, heating). Ilumination: Values of parameters. Visual well-being. Heat: Basic parameters. Heat well-being. Actions against noise. Actions against vibrations. Effects of noise on human being. Chemical pollutants and aerosols in work environment: Health protection at work. Hygiene of surfaces and coatings. Security of work environment: Security of				
	security. Waste hygiene and their disposal: waste water, solid waste, hygiene of water. Protection of human health and health security			
	s. 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	
	of integrating dosimetric methods and their use in practice. Overview of the main types of integrating dosimeters solid phase micro neu	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	ons in personal dos	imetry and	
	environmental dosimetry.			
16INZB	Medical Informatics for Engineers	KZ	2	
	duced into the basic concepts of using information technologies in medical application. They gain basic knowledge of UNIX, X-Wind	-		
	torage and back-up of data, network and data security, and how to avoid data misuse. Next, they will be indroduced into the opportur	-		
16KLDB	nedical images, formats of medical data (DICOM), native medical networks (PACS), and systems of pacient monitoring. Short basic of Clinical Decimentry for Tachnaisan	ZK	2	
-	Clinical Dosimetry for Technicians nts for radiation beam dosimetry as well as radiation protection aspects will be discussed for clinically used beams. Absolute and relativ	I I		
	d in-vivo dosimetry technology and their possibilities and limitations in clinical dosimetry will be analysed. Optimisation and minimizatio		-	
	examinations, dose determination based on activity of applied radiopharmaceutical.		,,	
16KPR	Clinical Propaedeutic	ZK	2	
	miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical	I —·· I		
16NMKBS	Clinical Training - Nuclear Medicine	KZ	4	
Training in the field	of radiological physics in nuclear medicine organized together with clinical partners. Overview of the duties, activities and responsibil	ities of a radiologic	al physicist.	
Obtaining a basi	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 garr	imacamera,	
	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 th	e course is practical application of theoretical procedures, especially data analysis using available software solution. Students will lea	arn to perform com	orehensive	
1600700	analysis and evaluation of data and risks.	KZ	4	
16PDZBS	Practicum in Detection and Dosimetry of Ionizing Radiation of practical exercises. They should learn students to operate nuclear instrumentation common in praxis, and also to do measurement	I ·· I	4 art of their	
	future jobs.	s, which may be pa		
16PSE	Topical Dosimetry Seminar	Z	2	
	pposed to motivate the students interest in the field of dosimetry and provide basic information about different applications of ionizing ratio	–		
and in human life.	The lectures are given by students and absolvents of DDAIR, who are currently employed at the department or in various organization			
		ons (SURO, v.v.i., L	JJF AV R	
v.v.i., ÚJV ež, N	/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	II, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t	nd current topics in he studies and afte	the field of	
dosimetry, but s	/I, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection	nd current topics in he studies and after ZK	the field of erwards. 4	
dosimetry, but s	II, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The	nd current topics in he studies and after ZK	the field of erwards. 4	
dosimetry, but s 16RAON The course covers	Al, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The which allows obtaining special competence in radiation protection and learner receives appropriate certificate.	nd current topics in he studies and afte ZK course is accepted	the field of erwards. 4 as training,	
dosimetry, but s 16RAON The course covers 16RDKBS	/II, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The original allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics	nd current topics in he studies and afte ZK course is accepted KZ	the field of erwards. 4 as training, 4	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel	Al, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The orwhich allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics d of radiological physics in X-ray diagnostics organized together with clinical partners. Overview of duties, activities and responsibilities.	nd current topics in he studies and afte ZK course is accepted KZ es of a radiological	the field of erwards. 4 as training, 4 physicist.	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the	II, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The orwhich allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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	nd current topics in he studies and after ZK course is accepted KZ es of a radiological radiological physici	the field of erwards. 4 as training, 4 physicist. st. Training	
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dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the examples: corre mea 16REB History of radiolysis states, solvated ele 16RTDG X-ray unit, X-ray 16RTKBS 16RTKBS 16RTNM Radionuclide ar 16RTRTB Curriculum introduc 16SED1 The seminary is su	All, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The of which allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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 act setup of the X-ray device (dental, panoramatic, radiographic, fluoroscopic, mammographic, CT), QA tests, image optimization, chr surement of the patient dose (TL dosimetry), indirect measurement of the patient dose (ion chamber, DAP meter, semiconductor+rec Effects of Ionizing Radiation on Substance , 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. Radiological Technics - Diagnostic Radiology production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalit dosimetry and radiation oprotection in diagnostic and interventional radiology, quality control. Clinical Training - Radiotherapy Training in the field of radiological physics in radiotherapy organized together with clinical partners. Radiological Technology-Nuclear Medicine d radiopharmaceutical production, radiation detection	Ad current topics in         he studies and after         ZK         course is accepted         KZ         es of a radiological physicil         eck of the develope         calculation), etc.         ZK         y products of radiological         nd alloys, radiation         Z,ZK         ECT and PET, tommetry         Z,ZK         rance, imaging in radiation	the field of erwards. 4 as training, 4 physicist. st. Training er, direct 2 vsis, excited technology, 3 ography, 4 3 ographic 3 adiotherapy 2 re writing of	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the examples: corre- mea 16REB History of radiolysis states, solvated ele 16RTDG X-ray unit, X-ray 16RTKBS 16RTKBS 16RTNM Radionuclide ar 16RTRTB Curriculum introduc 16SED1 The seminary is su a bachelor's thesis	Al, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The o which allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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 act setup of the X-ray device (dental, panoramatic, radiographic, fluoroscopic, mammographic, CT), QA tests, image optimization, cho surement of the patient dose (TL dosimetry), indirect measurement of the patient dose (ion chamber, DAP meter, semiconductor+rec Effects of Ionizing Radiation on Substance 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. Radiological Technics - Diagnostic Radiology production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalli dosimetry and radiation protection in diagnostic and interventional radiology, quality control. Clinical Training - Radiotherapy Training in the field of radiological physics in radiotherapy organized together with clinical partners. Radiological Technology-Nuclear Medicine di radiopharmaceutical production, radiation detection in nuclear medicine	Ad current topics in         he studies and after         ZK         course is accepted         KZ         es of a radiological physicil         eck of the develope         calculation), etc.         ZK         y products of radiological         nd alloys, radiation         Z,ZK         ECT and PET, tommetry         Z,ZK         rance, imaging in radiation	the field of erwards. 4 as training, 4 physicist. st. Training er, direct 2 vsis, excited technology, 3 ography, 4 3 ographic 3 adiotherapy 2 re writing of	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the examples: corre mea 16REB History of radiolysis states, solvated ele 16RTDG X-ray unit, X-ray 16RTKBS 16RTKBS 16RTNM Radionuclide ar 16RTRTB Curriculum introduc 16SED1 The seminary is su a bachelor's thesis 16SEMB	All, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar tudents will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The o which allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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 act 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 Effects of Ionizing Radiation on Substance 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. Radiological Technics - Diagnostic Radiology production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalli dosimetry and radiation protection in diagnostic and interventional radiology, quality control. Clinical Training - Radiotherapy Training in the field of radiological physics in radiotherapy organized together with clinical partners. Radiological Technology-Nuclear Medicine di radiopharmaceutical production, radiotine describerio, scintigraphy - b	Ad current topics in         he studies and after         ZK         course is accepted         KZ         es of a radiological physicil         eck of the develope         calculation), etc.         ZK         y products of radiological         nd alloys, radiation         Z,ZK         ECT and PET, tommetry         Z,ZK         rance, imaging in radiation	the field of erwards. 4 as training, 4 physicist. st. Training er, direct 2 vsis, excited technology, 3 ography, 4 3 ographic 3 adiotherapy 2 re writing of	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the examples: corre mea 16REB History of radiolysis states, solvated ele 16RTDG X-ray unit, X-ray 16RTKBS 16RTKBS 16RTRTB Curriculum introduc 16SED1 The seminary is su a bachelor's thesis 16SEMB 16SEPB	Al, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The o which allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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 act 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 Effects of Ionizing Radiation on Substance is, track, stages of radiolysis, radiation chemical yield, experiments in radiolysis, classical methods, pulse radiolysis, EPR, some primary croons, 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. Radiological Technics - Diagnostic Radiology production, interactions of X-rays with tissue, image formation, image receptors, image quality, analogue and digital imaging modalit dosimetry and radiation protection in diagnostic and interventional radiology, quality control. Clinical Training - Radiological physics in radiotherapy Training in the field of radiological physics is radiotherapy recontruction in nuclear medicine, image quality in nuclear Medicine d radiopharmaceutical aspects in radiotherapy	Ad current topics in he studies and after ZK course is accepted KZ es of a radiological radiological physici eck of the develope calculation), etc. ZK y products of radioly ind alloys, radiation Z,ZK ties, computed tom KZ Z,ZK ECT and PET, tom metry Z,ZK rance, imaging in ra- to support for futur i, ÚJF AV R v.v.i. Z	the field of prwards. 4 as training, 4 physicist. st. Training r, direct 2 /sis, excited technology, 3 ography, 4 3 ographic 3 adiotherapy 2 re writing of , ÚJV ež, 2 4	
dosimetry, but s 16RAON The course covers 16RDKBS Training in the fiel Intorduciton to the examples: corre mea 16REB History of radiolysis states, solvated ele 16RTDG X-ray unit, X-ray 16RTKBS 16RTKBS 16RTRTB Curriculum introduc 16SED1 The seminary is su a bachelor's thesis 16SEPB An essay providing	Al, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o., CERN, Fermilab). The lectures will focus not only on describing research ar students will also learn more about Bachelor degree thesis topics and thus will learn more about their possible specialization during t Radiation Protection the basic principles of radiation protection. It describes not only the current approaches but also points to future developments. The e which allows obtaining special competence in radiation protection and learner receives appropriate certificate. Clinical Training - X-Ray Diagnostics 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 act 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 Effects of Ionizing Radiation on Substance , 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. Radiological Technology-Nuclear Medicing fraining in the field of radiological physics in radiotherapy Training in the field of radiological physics in radiotherapy recontruction in nuclear medicine, image quality in nuclear medicine, scintigraphy - bacis principles, tomographic imaging - SPI recontruction in nuclear medicine, image quality in nuclear medicine, quantification in nuclear medicine, netrenal radiotherapy recontruction in nuclear medicine, image quality in nuclear medicine, quantification in n	Ad current topics in he studies and after ZK course is accepted KZ es of a radiological radiological physici eck of the develope calculation), etc. ZK y products of radioly ind alloys, radiation Z,ZK ties, computed tom KZ Z,ZK ECT and PET, tom metry Z,ZK rance, imaging in ra- to support for futur i, ÚJF AV R v.v.i. Z mbining of informat	the field of prwards. 4 as training, 4 physicist. st. Training r, direct 2 /sis, excited technology, 3 ography, 4 3 ographic 3 adiotherapy 2 re writing of , ÚJV ež, 2 4	

16TZPB	Overview of Legislation in Health Care	Z	2	
This course provide	es an overview of technical and health-care specific legal and other regulations associated with utilization of health-care devices base	ed on ionizing radia	ation and/or	
	ealth care. Problematics of judgement of accordance, in-market implementation, acquisition, commission, utilization, maintenance, servi			
	oblems of clinical evaluation and clinical tests. ("Law on technical requirements on products", "Law on health-care resources, Law or			
-	elated 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			
	beople irradiated by radiation accidents. Legislation concerning radiological health professions: Laws on clinician and non-clinician health professions", and related regulations, including			
system of gradu	Jate, specialization and continuing education, certifications, registrations. Indication criteria for imaging modalities and radiological m	edical standards, ir	ncluaing	
16UAZB	determination and evaluation of patient doses, and audits of patient doses.	ZK	2	
	Principles of Ionizing-Radiation Applications of applications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radion	I I		
	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	
	ppinions about atoms and radiation physics, relativistic and quantum properties, basic characteristics of atoms and nuclei, binding en			
	r, nuclear moments, isospin, basic nuclear models, general characteristics of interaction of radiation with a matter, interaction of alpha			
	penetration of radiation beams through material, radiation effects in a matter.	, ,,,	,	
16URF2	Introductory Radiation Physics 2	Z,ZK	4	
General characte	eristics of radioactive decay, alpha decay, proton radioactivity, beta decay, emission of gamma radiation, natural radioactivity, types ar	nd characteristics of	of nuclear	
	reactions, nuclear fission, transuranium elements, thermonuclear fussion.			
16USRJB	Introduction to Quality Management in Health Care for Bachelors	Z	2	
	in field of quality management. Implementation of quality control (QC) systems, implementation QC systems in a health institution, u	-		
	management, and ISO 17025 - General requirements on qualification of reference and calibration laboratories. Requirements of tota	. , .	, ,	
A reason of implem	entation ISO norms to health care. Accreditation and certification of a health institution. Preparation and procedures of certification/ac	creditation process	s in a health	
4070454	institution.	7 71/		
16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1	Z,ZK	4	
-	ring systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular eneral human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system a			
their regulation. Ge	system and physiology of respiration. Excretory and genital tract.	ind its physiology. P	Respiratory	
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK	4	
	ogy of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood		-	
	B. Visual system and physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, en	-	or nor voo.	
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4	
	ment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz	I ' I		
, <u>,</u>	absorption. Fundamentals of the effects of ionizing radiation.			
16ZDOZ2N	Fundamentals of Radiation Dosimetry 2	Z,ZK	4	
	ological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles		asurements	
	in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure.			
16ZJTB	in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure. Nuclear Energy Facilities and Accelerators	ZK	2	
		I I		
Basic scheme of	Nuclear Energy Facilities and Accelerators nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons,	portant reactor typ	es, linear	
Basic scheme of high-voltage acce	Nuclear Energy Facilities and Accelerators nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.	portant reactor typ electron and ion so	es, linear ources for	
Basic scheme of high-voltage acce	Nuclear Energy Facilities and Accelerators nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets. Non-radiation imaging methods	portant reactor typ electron and ion so ZK	bes, linear ources for 2	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, to	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           oppology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic	portant reactor typ electron and ion so ZK - radiological correl	bes, linear ources for 2 lations - the	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, to	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           oppology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat	portant reactor typ electron and ion so ZK - radiological correl	bes, linear ources for 2 lations - the	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, to attempt of "historica	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat The image post processing and topology.	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c	es, linear ources for 2 lations - the correlations.	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, to attempt of "historica 16ZONK	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat           The image post processing and topology.           Basics of Oncology	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c	es, linear purces for 2 lations - the correlations. 2	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, tr attempt of "historica 16ZONK 1.Basics of cell bio	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat           The image post processing and topology.           Basics of Oncology           logy and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the best	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c Z known mutations	es, linear pources for 2 lations - the correlations. 2 - BRCA1/2,	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, tr attempt of "historica 16ZONK 1.Basics of cell bio TP53, RAS 4.Fro	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat           The image post processing and topology.           Basics of Oncology	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c Z known mutations - ecrosis 6.Cancer s	2 lations - the correlations. 2 - BRCA1/2, tem cells,	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, tr attempt of "historica 16ZONK 1.Basics of cell bio TP53, RAS 4.Fro	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - anal the image post processing and topology.           Basics of Oncology           logy and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the best m mutation to tumorigenesis proto-oncogenes, oncogenes, anti-oncogenes 5.Tumour microenvironment - hypoxia, angiogenesis a n	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c Z known mutations - ecrosis 6.Cancer s	2 lations - the correlations. 2 - BRCA1/2, tem cells,	
Basic scheme of high-voltage acce 16ZOME Applied anatomy, tr attempt of "historica 16ZONK 1.Basics of cell bio TP53, RAS 4.Fro	Nuclear Energy Facilities and Accelerators           nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, accelerators, targets.           Non-radiation imaging methods           opology and clinical anatomy in radiology. Pathologic - radiological correlations on different fields. The dose x resolution x pathologic - radiological methods and their application in radiological - anat The image post processing and topology.           Basics of Oncology           logy and human anatomy 2.Cell differentiation and introduction to epigenetics 3.DNA damage and mutagenesis overview of the best m mutation to tumorigenesis proto-oncogenes, oncogenes, anti-oncogenes 5.Tumour microenvironment - hypoxia, angiogenesis a n cells and metastatic behaviour of tumours 7.Tumour types and their classification (TNM, Gleason) 8.Tumour histology, biopsies, tum	portant reactor typ electron and ion so ZK - radiological correl tomic - pathologic c Z known mutations - ecrosis 6.Cancer s	2 lations - the correlations. 2 - BRCA1/2, tem cells,	
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16ZRIZ	Health risks of ionizing radiation	ZK	2	
The aim of the cour	se is to acquaint students with the radiobiological basics of radiation protection. The basis of the course is an introduction to the biolog	ical effects of ioniz	ing radiation	
(IR) at the molecu	Ilar, cellular and tissue levels, an overview of deterministic and stochastic effects of ionizing radiation, health harm, risk and its evalua	ation, basics of epi	demiology.	
18PMTL	Programming in MATLAB	KZ	4	
Introducing Matlab	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 i	ntended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	mming and with the	e Python	
	programming language.			
TV-1	Physical Education	Z	1	
TV-2	Physical Education	Z	1	
TV-3	Physical education	Z	1	
TV-4	Physical education	Z	1	

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-05-29, time 18:43.