## Study plan

## Name of study plan: Quantum Technologies

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Quantum Technologies

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: BSPQT1

Name of the group: BS P\_QTB 1st year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 15 courses

Credits in the group: 0 Note on the group:

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
02DEF1	History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	Z	Р
02ELMA	Electricity and Magnetism Iskender Yalcınkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.)	Z,ZK	6	4+2	L	Р
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)  Dvo áková (Gar.)	Z	2	2P+2C		Р
01LALZ	Linear Algebra 1, exam Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		Р
01LAL2	Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		Р
01MAN	Calculus 1 Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.)	Z	4	4+4		Р
01MANZ	Calculus 1, exam Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		Р
01MAN2	Calculus 2 Severin Pošta, Miroslav Kolá, Edita Pelantová Miroslav Kolá Severin Pošta (Gar.)	Z,ZK	8	4P+4C		Р
02MECH	Mechanics Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.)	Z	4	4+2	Z	Р
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David Be, Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	Р
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	Р
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	Р
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Libor Škoda, Petr Chaloupka Martin Štefa ák Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	Р

	Virius (Gar.)	,	
Characteristics	of the courses of this group of Study Plan: Code=BSPQT1 Name=BS P_QTB 1st year		
02DEF1	History of Physics 1	Z	2
	e in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natura	1 1	
	chimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Ga		-
•	ence. Newton and his work.	illico, riaygeris. Trie bii	ur or priyoloo
2ELMA		Z,ZK	6
	Electricity and Magnetism Ilomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits		_
•	nicrino's law, electrostatic field, Gauss law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits nic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,Maxwe	•	or the relativi
)1LAL	Linear Algebra 1	Z	2
. Vector space. 2. L	inear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matric	es of linear mappings.	7. Frobenius
heorem.			
D1LALZ	Linear Algebra 1, exam	ZK	2
)1LAL2	Linear Algebra 2	Z.ZK	4
	natrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitia	1 ' 1	•
	, , , , , , , , , , , , , , , , , , , ,	•	
-	pnality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse		
	Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonal control of the control of th	onality. Calculation of o	rtnogonai
	ometry – exercises and examples. 7. Adjoint operators.		
1MAN	Calculus 1	Z	4
sasic calculus (real	analysis, functions of one real variable, differential calculus).		
1MANZ	Calculus 1, exam	ZK	4
1MAN2	Calculus 2	Z,ZK	8
Continuation of di	fferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, abso	olute and conditional co	onvergence 3
	ower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of		•
	the characteristics and application of integrals, Generalized Riemann integral	or integrals. primitives,	definite integ
		Z	4
2MECH	Mechanics		•
	cs, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-din	•	
	forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid	a body, rotation. Funda	mentals of
	cs, elasticity, hydrodynamics. Sound.		
2MECHZ	Mechanics - Examination	ZK	2
he content of the s	ubject is the examination according to the plan of studies.		
0PT	Preparatory Week	Z	2
2TER	Heat and Molecular Physics	Z,ZK	4
hermal expansion	of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermo	dynamic principle, idea	al and real ga
	al systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory; Maxwell's velo		
)2ZM1	Foundations of Physical Measurements 1	ZK	2
	ned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), howe		_
_	goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquire		-
asic habits of work		su data on a r C. Stude	sino learri un
		KZ	4
)2ZM2	Foundations of Physical Measurements 2	1 1	•
•	ned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), howe		•
	goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquire	eu data on a PC. Stude	ents learn the
asic habits of work		<del></del> _	
8ZPRO	Basics of Programming	Z	4
This course is inten-	ded mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in pro	gramming and with the	Python

0P+4L

4C

Ζ

4

ΚZ

Ζ

Foundations of Physical Measurements 2
Petr Chaloupka Martin Štefa ák Petr Chaloupka (Gar.)

Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš,

František Vold ich, Jan Tomsa, Zuzana Pet i ková **Miroslav Virius** Miroslav

**Basics of Programming** 

Code of the group: BSPQT2

Name of the group: BS P\_QTB 2nd year

Requirement credits in the group:

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

programming language.

02ZM2

18ZPRO

Credits in the group: 0

Předmět 02TEF1 lze absolvovat až po absolvování předmětu 02MECHZ. Předmět 02TEF2 Note on the group: lze absolvovat až po absolvování předmětů 02ELMA a 02TEF1.

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Experimental Laboratory 1** 02PRA1 Ζ ΚZ 6 0+4Ρ Libor Škoda, Katarína K ížková Gajdošová, Barbara Antonina Trzeciak, Jaroslav Biel ík **Jaroslav Biel ík** Jaroslav Biel ík (Gar.) Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.) 02PRA2 ΚZ 6 0+4L Ρ

01ANB3	Calculus B 3 Miroslav Kolá, Milan Krbálek Miroslav Kolá Milan Krbálek (Gar.)	Z,ZK	8	4P+4C		Р
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá, Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		Р
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	Р
02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	Р
02TEF2	Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	Р
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	Р
12ULAT	Introduction to Laser Technique Helena Jelínková, Jan Šulc Helena Jelínková Helena Jelínková (Gar.)	KZ	2	1+1	Z	Р
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BSPQT2 Name=BS P\_QTB 2nd year

Experimental Laboratory 1 02PRA1 ΚZ 6 Lecture is intended especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering). But it can be also attended by students interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with theliterature), the implementation of the measurement (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation of results. At the same time practically extendthe knowledge gained in lectures on physics.

02PRA2 Experimental Laboratory 2

Lecture is intended especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering). But it can be also attended by students interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with theliterature), the implementation of the measurement (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation of results. At the same time practically extendthe knowledge gained in lectures on physics.

01ANB3 Calculus B 3

1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional series, power series, Series Expansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation of variables, homogeneous equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficients and special right-hand side, Euler differential equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and non-isolated point, boundary of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fourier series, trigonometric Fourier series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total derivatives and tangent plane, Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations.

Calculus B 4 01ANR4

[1] Diferenciální po et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných . [4] Regulární zobrazení, zám na prom nných, nekartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstrukce Lebesgueovy míry. [7] Integrální po et funkce více prom nných - Riemann v a Lebesque v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesque va ta. Limita, spojitost a derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.

12NME1 Numerical Methods 1

There are explained the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computational environment MATLAB is used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.

Theoretical Physics 1

The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism as well as different approaches to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2).

02TFF2 Theoretical Physics 2

Z,ZK

Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and classical field theory in the Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic radiation in the dipole approximation.

02TSFA Thermodynamics and Statistical Physics

Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelier principle. Statistical entropy Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical ensemble, Fermi gas, models of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.

12ULAT Introduction to Laser Technique

Overview of electromagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers; laser safety precautions. The laser amplifier, Q-switching, mode-locking.

02VOAF Waves, Optics and Atomic Physics

6

Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems.

Code of the group: BSPQT3

Name of the group: BS P\_QTB 3rd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 9 courses

Credits in the group: 0

Note on the group:

Zkoušku z předmětu 01RMAF lze skládat až po složení všech zkoušek z Matematické

analýzy a Lineární algebry.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02BPQT1	Bachelor Thesis 1 Michal K elina Martin Štefa ák (Gar.)	Z	5	0P+5C	Z	Р
02BPQT2	Bachelor Thesis 2 Michal K elina Martin Štefa ák (Gar.)	Z	10	0P+10C	L	Р
02KM1	Quantum Mechanics 1 Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	Z	Р
02KM2	Quantum Mechanics 2 Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	L	Р
11KPRA1	Quantum Laboratory 1 Ladislav Kalvoda Ladislav Kalvoda (Gar.)	KZ	4	4L	Z	Р
02KPRA2	Quantum Laboratory 2  Jan epila Jan epila (Gar.)	KZ	4	4L	L	Р
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	Р
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C		Р
12KOE	Fundamentals of Classical Optics and Electrodynamics Milan Ši or, Ivan Richter, Pavel Kwiecien Pavel Kwiecien Ivan Richter (Gar.)	ZK	4	4P	L	Р

UIRWAF	Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZN	'	4P+2C		P
12KOE	Fundamentals of Classical Optics and Electrodynamics Milan Ši or, Ivan Richter, Pavel Kwiecien Pavel Kwiecien Ivan Richter (Gar.)	ZK	4	4P	L	Р
	f the courses of this group of Study Plan: Code=BSPQT3 Name=BS	S P_QTB 3rd	l year			
02BPQT1	Bachelor Thesis 1				Z	5
	e selected topic under the supervision of a selected supervisor, based on the assignment appr	, ,	rantor, dep	artment head	and the de	an. Supervision
and regular checking o	of the project under preparation by the supervisor is performed by means of personal consultation.	ations.				
02BPQT2	Bachelor Thesis 2				Z	10
Bachelor's thesis on the	e selected topic under the supervision of a selected supervisor, based on the assignment appr	roved by the gua	rantor, dep	artment head	and the de	an. Supervision
and regular checking of	of the project under preparation by the supervisor is performed by means of personal consulta	ations.				
02KM1	Quantum Mechanics 1			Z	,ZK	6
Abstract: The lecture de	escribes the birth of quantum mechanics and description of one particle and more particles by	elements of the	Hilbert spa	ace as well as	its time ev	olution. Besides
that it includes descrip	tion of observable quantities by operators in the Hilbert space and calculation of their spectra	a.				
02KM2	Quantum Mechanics 2			Z	,ZK	6
Abstract: The lecture e	xpands the introduction to quantum mechanics with more general formalism of quantum theo	ory, approximate	methods a	and path integ	ral. It sumn	narizes the
terminology and metho	ds used in various applications of quantum mechanics and prepares the students for an effect	tive scientific res	earch and	further study, i	n particula	r, of the moderi
formulations of quantu	m field theory.					
11KPRA1	Quantum Laboratory 1				KZ	4
In the first part of the s	emester, the students will gain basic practical skills in laser physics and usually used measu	rement methods	and techn	iques. In the s	econd par	t the students
will focus on tasks in p	reparation of low-dimensional systems, physics of low temperatures and basic structure and	spectroscopic n	nethods of	solid state phy	sics.	
02KPRA2	Quantum Laboratory 2				KZ	4
Physical measurement	is designed to master the operation of devices used in physics and technology dealing with ex	xperiments at th	e quantum	level. Experim	ents are cl	hosen such tha
the student will become	e accostumed with demanding parts of experimental physics and demonstrate quantum effect	cts.				
01PRST	Probability and Statistics			Z	,ZK	4
It is a basic course of p	probability theory and mathematical statistics. The probability theory is build gradually beginn	ing with the clas	sical defini	tion and conti	nuing till th	e Kolmogorov
definition. The notions	as random variable, distribution function of random variable and characteristics of random va	ariable are treate	ed and basi	c limit theoren	ns are state	ed and proved.
On the basis of this the	eory the basic methods of mathematical statistics such as estimation of distribution paramete	ers and hypothes	sis testing a	re explained.		
01RMAF	Equations of Mathematical Physics			Z	.ZK	7
The subject of this cou	rse is solving integral equations, theory of generalized functions, classification of partial difference of the control of the	rential equations	s, theory of	integral transf	ormations	, and solution o
partial differential equa	ations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	•	-	=		
12KOE	Fundamentals of Classical Optics and Electrodynamics				ZK	4

| 12KOE | Fundamentals of Classical Optics and Electrodynamics | ZK | 4 | The lecture is focused on the basics of classical optics and electrodynamics, which is important especially in relation to quantum optical theory. The lecture deals with electromagnetic

theory, physical optics, material aspects of optical phenomena, introduction to geometrical optics, and fundamentals of nonlinear optics, including dispersion theory of linear and nonlinear response in optical media, including anisotropic ones. Attention is also given to beam optics. Further, it focuses on the implications of statistical properties of light, explains the basics of diffraction theory and holography. It explains the relation between wave optics and ray optics, describes light propagation in term of rays, and outlines the fundamentals of instrumental optics. It also includes the basics of guided waves and resonators - the theory of guided waves in waveguides and optical fibers, waveguide modes and waveguide dispersion, reciprocity theorem and optical resonator theory.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 0

The role of the block: PV

Code of the group: BSSPOLVEDY-ANGL.PR.

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

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	Z	1	0+2		PV

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

00RET Rhetoric

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 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.

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.

Note on the gr	•					
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
04XAMZK	English for Intermediate Students Examination	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners – Beginners - Examination Jana Ková ová, Slav na Brownová	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination  Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination	ZK	4		Z	PV
04XFZZK	French for Beginners Examination  V ra Šlechtová	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination V ra Šlechtová	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination V ra Šlechtová	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	ne examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two part	s - written (100 m	nin) and oral
(20-30 min). The studer	t is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English cour	ses.	
04XAPZK	English for Advanced Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability t	o apply their know	wledge obtained
in the three AP courses	The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a topic from the	the student's field	d of study.
04XCESZZK	Czech for Foreigners – Beginners - Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04	XCESZ1,2,3 cou	rses and can
only be taken after succ	essful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CE	SM1,2,3 courses	s and can only
be taken after successf	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CE	SP1,2,3 courses	and can only
be taken after successf	ul 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 exam	ination as given by the study programme. The whole French programme is ended with an examination covering the contents	of FM1-FM3. The	examination
consists of a written and	d 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 prog	ram is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part	and is organized	d according to
Examination Instruction	s, a document available on the web. Assessment of the presentation is included into the examination grading.		

04XFZZK French for Beginners Examination 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 for examination. Its content covers the levels FZ1 - FZ5.		
Instruction for examination, its content covers the levels E71, E75	nination is ruled b	y the document
instruction for examination. Its content covers the levels 1 21 - 1 25.		
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	o 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	ment. More detail	ed information
is to be obtained from the teacher.		
04XNPZK German for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	n consisting of two	parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrade	ed assessment. Me	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 instruction	ions by the teache	∍r.
04XRPZK Russian for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the know	ledge and skills a	cquired in RP1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruction	ons by the teache	r.
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	ledge and skills a	cquired in RZ1
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instruction	ons by the teacher	-
04XSMZK Spanish for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written	n part, students w	ill have obtained
non-graded assessment for course SM3.Oral examination follows the written part.		
04XSPZK Spanish for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for	or admission to or	al 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	xamination only if	he/she has
passed the written examination test.		

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

The role of the block: V

Code of the group: BSPQTV

Name of the group: BS P\_QTB Optional courses

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

Credits in the group: 0

Note on the	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02DEF2	History of Physics 2 Igor Jex Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	L	V
02DPD1	Detectors and Principles of Detection 1 Solangel Rojas Torres, Jesus Guillermo Contreras Martin Štefa ák Jesus Guillermo Contreras (Gar.)	ZK	2	2P+0C	Z	V
02DPD2	Detectors and Principles of Detection 2 Solangel Rojas Torres, Jesus Guillermo Contreras Martin Štefa ák Jesus Guillermo Contreras (Gar.)	ZK	4	4P+0C	L	V
02EXF	Experimental Physics Katarína K ížková Gajdošová, Barbara Antonina Trzeciak, Jaroslav Adam, Jaroslava Óbertová Jaroslava Óbertová Katarína K ížková Gajdošová (Gar.)	ZK	2	2P+0C	Z	V
01FKO	Functions of Complex Variable Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		V
02FYS1	Physical Seminar 1 Martin Štefa ák Vojt ch Svoboda (Gar.)	Z	2	0+2	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
12LAS	Laser Systems Václav Kube ek Václav Kube ek (Gar.)	Z,ZK	3	2+1	L	V
00MAM1	Essentials of High School Course 1  David Be Martin Stefa ák	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2  Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
12MOF	Molecular Physics Jan Proška, Martin Michl Jan Proška (Gar.)	ZK	2	2+0	L	V

02NSAD1	Simulations and Data Analysis Tools 1  Zden k Hubá ek Zden k Hubá ek Zden k Hubá ek (Gar.)	Z	2	2P+0C	Z	V
02NSAD2	Simulations and Data Analysis Tools 2  Zden k Hubá ek Zden k Hubá ek Zden k Hubá ek (Gar.)	Z	2	2+0		V
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský <b>Miroslav Virius</b> Miroslav Virius (Gar.)	KZ	4	2+2	L	V
11SFIPL	Seminar on Solid State Physics Ladislav Kalvoda Ladislav Kalvoda (Gar.)	KZ	2	1+1		V
02STR	Special Theory of Relativity David Be Martin Štefa ák David Be (Gar.)	ZK	2	2+0	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
14TED	Creating Electronic Documents  Aleš Materna Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
12UFN	Introduction to Photonics and Nanostructures Ivan Richter, Pavel Kwiecien, Jan Proška Ivan Richter Ivan Richter (Gar.)	KZ	3	2P+1C	L	V
02UFEC	Introduction to Elementary Particle Physics  Jaroslav Biel ik, Marek Matas Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	2+0	Z	V
11UFPLN	Introduction to Solid State Physics Ivo Kraus, Petr Kolenko Petr Kolenko Ivo Kraus (Gar.)	ZK	2	2+0	L	V
17UING	Introduction to Engineering Jan Frýbort, Petr Haušild, Radek Mušálek Jan Frýbort (Gar.)	KZ	3	2P+1C	Z	V
02UKT	Introduction to Quantum Theory Martin Štefa ák Martin Štefa ák (Gar.)	Z	2	2+0		V
12UMF	Introduction to Modern Physics Jan Pšikal Jan Pšikal (Gar.)	Z	3	2+1	L	V
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	V
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	V
12VKT	Vacuum Technology Richard Švejkar Vojt ch Petrá ek Vojt ch Petrá ek (Gar.)	KZ	4	2P+2L	Z	V
12PYTH	Scientific Programming in Python Pavel Váchal, Jakub Urban Pavel Váchal Pavel Váchal (Gar.)	Z	2	0+2	L	V
12VTV	Scientific and Technical Computing Ivan Procházka Ivan Procházka Ivan Procházka (Gar.)	Z	2	1+1	L	V
12ZPLT	Basic Laser Technique Laboratory Václav Kube ek, Josef Blažej Václav Kube ek (Gar.)	KZ	6	0+4	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
12ZFS	Fundamentals of Photonic Structures Ivan Richter, Jií tyroký Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2P	L	V
11ZFPL	Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Eva Mihóková Ladislav Kalvoda (Gar.)	KZ	2	26P+0C	Z	V

## Characteristics of the courses of this group of Study Plan: Code=BSPQTV Name=BS P\_QTB Optional courses

02DEF2 History of Physics 2 Development of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. Electricity and magnetism electrostatics, galvanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. The birth of modern quantum and relativistic physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear energy, Elementary particles, standard model. The concept of Nature and Universe of today. 02DPD1 Detectors and Principles of Detection 1 ZK Abstract: The lectures introduce the main forms of interaction of some particles with matter. The goal is that the student gets an overview of what type of processes are possible and in which situations they may be dominant. Some applications to Medicine and to study the fundamental structure of matter are presented. Detectors and Principles of Detection 2 ZK 02DPD2 Abstract: The lectures introduce the main ideas needed to understand how detector systems work. It will be focused on gaseous detecting principles, scintilating principles and semiconductor detecting principles. Basic information about various detector constructions is provided. 02EXF **Experimental Physics** ZK The goal of this subject is to introduce the students the principles of physics measurements, their techniques, methods and instruments that are used for such measurements, and the analysis of measured data Z,ZK 01FKO Functions of Complex Variable

The course starts from outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are explained in detail: the derivative of a complex function and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauchy's integral theorem, Morera's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue theorem.

02FYS1	Physical Seminar 1	Z	2
The seminar is devoted	to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical	cs presented in the	e course of
Mechanics. The proble	ms are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laboratory equ	ipments.	
04AKS	English Conversation	Z	1
The course will develop	o the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun	nication. The stude	ent will develop
1	ious communication situations and will master their communication strategy. They will also practise their listening skills in ord		•
· ·	dent will be trained to express their ideas clearly and according to current English usage, and become a more confident spea		
12LAS	Laser Systems	Z,ZK	3
	psecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers	1 ' 1	l
	niconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ult		_
	rs. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers.	aviolet lasers. A re	ay lasers. riigir
00MAM1		Z	1
	Essentials of High School Course 1		
00MAM2	Essentials of High School Math Course 2	Z	1
Review of basics of hig	h school mathematics.		
12MOF	Molecular Physics	ZK	2
Basic ideas on multi-at	omic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure deter	mination.	
02NSAD1	Simulations and Data Analysis Tools 1	Z	2
Data analysis and simu	ulations of high energy elementary particle collisions. ROOT and Pythia programs.		
02NSAD2	Simulations and Data Analysis Tools 2	Z	2
	ude implementation and testing of a program for generating of particle collision. Results are reviewed.	_	_
18PRC1	Programming in C++ 1	Z	4
	inly the C programming language and non-object oriented features of the C++ language.	4	, 4
		1/7	
18PRC2	Programming in C++ 2	KZ	4
	object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Templat	<del>, , , , , , , , , , , , , , , , , , , </del>	
11SFIPL	Seminar on Solid State Physics	KZ	2
1.Introduction of the Se	eminar and ?SSS? software features. 2.Module "bravais" - crystal structure and X-ray diffraction in 2D ? theory 3.Simulations	of diffractive phen	omena related
to following themes: cry	ystal lattice versus crystal structure, primitive cell, elementary cell, lattice plane, reciprocal grid, Laue and Bragg condition, at	omic scattering fac	ctor, structural
factor, extinction, practic	cal structural analysis 4.Module "laue" - Diffraction on perfect and imperfect crystals 5.Simulations: influence of structural disorde	r on diffraction pat	tern, atomization
and thermal oscillation	s, quasi crystals 6."born" module - dynamics of crystalline grid in 1D ? theory 7.Simulations: planar waves, traveling and stan	ding waves, norma	al modes,
polarization, energy and	d momentum transport, infinite chain, chain of finite lenght, boundary conditions, wave packets, group and phase velocity, dispe	rsion, pulses and th	neir propagation,
localized modes, anhai	monicity 8."debye" module - lattice dynamics and thermal capacity ? theory 9.Simulations: Brillouine zone, dispersion relation	, density of states,	, thermal energy,
heat capacity 10."drude	e" module - dynamics of classical electron gas in 2D ? theory 11.Simulations: diffuse electron movement, electron drift in an o	external electric fie	eld, Haynes and
Shockley experiment, e	electron mobility, electron motion in magnetic field, cyclotron frequency, Hall experiment, magnetorezistence 12.Assignment, e	alaboration and pre	esentation of the
seminar work.			
02STR	Special Theory of Relativity	ZK	2
1	nowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals.		_
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
14TED	Creating Electronic Documents	Z	2
	and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, present	ations and entire	documents in an
office suite.			
12UFN	Introduction to Photonics and Nanostructures	KZ	3
	tures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanopl	1	_
	nics; computer simulations; technological realization; student presentations	asmonics, optical	waveguides and
02UFEC	Introduction to Elementary Particle Physics	Z	2
	n easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject	are presented.	
11UFPLN	Introduction to Solid State Physics	ZK	2
The purpose of this led	ture is to introduce the undergraduate students to the study of the solid state physics.		
17UING	Introduction to Engineering	KZ	3
This course provides in	ntroduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and b	havior, basics of	manufacturing
	assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be included.	,	3
02UKT	Introduction to Quantum Theory	Z	2
1	is to introduce the basic principles of quantum theory and its interpretation on simple examples.		
		7	
12UMF	Introduction to Modern Physics	Z	3
	to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics cours	e. A part of the co	urse is delivered
in a computational labo			
12UNXAP	Introduction to UNIX	Z	2
1	g systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa-		
Principles of operating	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, workin	g with files. Text ed	ditors: vi, emacs.
Command interpreter (	shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar	d tools. Graphical	user interface
X-windows. Computer	networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a	computer. Network	services:
hardware sharing, mail	, scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
	roduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted wit	1	l
1	ing, data analysis, data visualisation and algorithm development.	22 2.0.0 10010	
	0,		

Vacuum Technology Rarefied gasses: basic concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surface; sorption, desorption; gas transport through solid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their properties:-Positive displacement pumps: Diaphragm, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorption pumps, Sublimation and NEG pumps, Ion getter pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Materials and vacuum components and seals. Practical exercises. 12PYTH Scientific Programming in Python The aim of this course is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is placed on effective solutions to real problems. The course is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or student theses. Students are also involved in ongoing research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or functional programming. The greater part of the course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy and the Matplotlib graphics library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.

mainly to programming in the Fortran language.

Scientific and Technical Computing

Ζ

12ZPLT Basic Laser Technique Laboratory Lasers, solid state Nd: YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic, He-Ne glow discharges, laser

The students get familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their programming. The course is oriented

diode, diode pumped Nd: YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto-optic modulators Basic Electronics 1

12VTV

2

The subject provides primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuit analysis methods for linear circuits include symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effects inside linear circuits

**Basic Flectronics 2** The subject follows up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic themes of logical circuits field. 12ZFS Fundamentals of Photonic Structures Z.ZK 2

The lecture covers the basics of photonic structures, it classifies photonic structures compares them with the electronic structures, summarizes their preparation and characterization. Specifically, the lecture discusses the basic physics and technology of optical waveguides; it introduces basic linear, nonlinear, and active structures of integrated photonics for applications in optical communications and sensors. Next, the attention is given to introduction of plasmonic structures and plasmonics, periodic structures and photonic crystals, metamaterials, metasurfaces, and finally to photonic structures for quantum technologies. Finally, the lecture is closed with student presentations on selected relevant topics and excursions to selected photonic laboratories

11ZFPL Basic to Solid State Physics ΚZ

2

Description of fundamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding interaction between atoms in solids, various types of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic thermal properties of crystals are derived. The periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in solids by means of electron energy bands explained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to systematically introduce and interpret a broad phenomenological basis of physical properties of crystalline solids

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

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04XAM1	English for Intermediate Students M1	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2 V ra Šlechtová	Z	2	0+2	L	٧
04XAM3	English for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 V ra Šlechtová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2  V ra Šlechtová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3  Jana Ková ová (Gar.)	Z	2	2S	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	٧
04XCESM3	Czech for Foreigners - Intermediate 3 V ra Šlechtová Jana Ková ová (Gar.)	Z	2	0+2	Z	٧
04XCESP1	Czech for Foreign Students - Advanced 1  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V

04XCESP2	Czech for Foreigners - Advanced 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 V ra Šlechtová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3  V ra Šlechtová	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2	Z	2	0+4	Z	V
04XFZ3	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z3	Z	2	0+4	L	V
04XFZ4	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z4	Z	2	0+4	Z	V
04XFZ5	V ra Šlechtová French for Beginners Z5	Z	2	0+4	L	V
04XNM2	V ra Šlechtová  German for Intermediate Students M2	Z	2	0+2	L	V
04XNM1	Miloslava echová Miloslava echová (Gar.)  German for Intermediate Students M1	Z	2	0+2	Z	V
04XNM3	V ra Šlechtová Miloslava echová (Gar.)  German for Intermediate Students M3	Z	2	0+2	Z	V
	V ra Šlechtová  German for Advanced Students P1				_	
04XNP1	V ra Šlechtová Miloslava echová (Gar.)  German for Advanced Students P2	Z	2	0+2	Z	V
04XNP2	Miloslava echová Miloslava echová (Gar.)  German for Advanced Students P3	Z	2	0+2	L	V
04XNP3	V ra Šlechtová	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2  V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5  V ra Šlechtová	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3	Z	2	0+2	Z	V
04XSP1	V ra Šlechtová  Spanish for Advanced Students P1	Z	2	0+2	Z	V
04XSP2	V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)  Spanish for Advanced Students P2	Z	2	0+2	L	V
04XSP3	Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)  Spanish for Advanced Students P3	Z	2	0+2	Z	V
04XSZ1	V ra Ślechtová  Spanish for Beginners Z1	Z	2	0+4	L	V
04XSZ2	Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) Spanish for Beginners Students Z2	Z	2	0+4	Z	V

04XSZ3	Spanish for Beginners Z3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
Characteristics of the	e courses of this group of Study Plan: Code=BSPJAZYKYZAP N	lame=BS P j	azyky za	р		
	nglish for Intermediate Students M1				Z	2
l l	students who have successfully completed the full secondary school English language of	course at least at	the A2 level	of the Com	mon Europea	an Frameworl
of Reference for Languages	(CEFR). It provides an introduction into English for Specific and Academic Purposes (I	ESP, EAP), i.e., ir	nto fundame	ntals of voca	abulary and	style typical o
professional oral and writter	n communication situations. Thus it covers topics related to the student's life and needs	as well as topics	of subtechi	nical interest	. Attention is	also paid to
	grammar issues used in EAP.	•				·
	nglish for Intermediate Students M2				Z	2
The AM2 course expects the	e student to have completed the AM1 course. It develops their skills for work with subte	chnical texts, foci	using also m	nore on spec	ific grammaı	r, functions,
and lexical items typical of E	SP and EAP (e.g., definition, existence and classification of phenomena, object descripti	ons). Part of the o	ourse is als	o guided writ	ing. If necess	sary, gramma
revision is included.						
04XAM3 En	nglish for Intermediate Students M3				Z	2
	lls that enable students to cope with features typical of professional style. Increasing atter	ntion is paid to de	velopina sul	otechnical vo	_	d independer
·	al texts. Great emphasis is placed on distinguishing different levels of formal and inform	-			=	-
- ·	o includes studying abstracts and rules for writing them as well as basic rules for prepar					
student's field.	o includes studying abstracts and rules for writing them as well as basic rules for prepar	ing and giving a	siloit piesei	itation on a	crioseri topic	related to the
	nglish for Advanced Students P1				Z	2
	students who have successfully completed the full secondary school English language				-	
	- CEFR). It provides an introduction into English for Specific and Academic Purposes (					
	of professional oral and written communication situations (fundamentals of terms in mat				-	•
covers professional oral and	written communication on topics related to the undergraduate's life and needs. It develop	s skills for free pr	ofessional w	riting (writing	g a CV, letter	of application
polite request). If necessary	, revision of selected grammar topics is included.					
04XAP2 En	nglish for Advanced Students P2				Z	2
	n AP1, thus extending the student's skills for working with subtechnical texts, and even	with professional	texts of cho	sen branche	es of science	. According t
	entrates on chosen grammar topics, but mainly intends to develop understanding of syn	-				_
	ble, a case study). Increasing emphasis is placed on the undergraduate's independent					
	dent's subtechnical vocabulary, and includes fundamental notions of chosen branches of			-		_
	cohesion and coherence in texts.		, acca a		. roru um ig ur o	0011101100 a.i.
	nglish for Advanced Students P3					
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04XFM1	French for Intermediate Students M1	Z	2
	M The objective of this three-semester course is to improve and further develop communication in the French language in bo		
	cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr	•	
	problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy	-	
	study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, pe ture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work		-
04XFM2	French for Intermediate Students M2	Z	2
-	M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	. – .	
	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sci		
	chitects. Description of an object, device, shapes, dimensions, material.		0,7
04XFM3	French for Intermediate Students M3	Z	2
The course is focused of	n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (	subordinate and i	nfinitive clauses,
participle structures, co	mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c	lass. 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	vork compiled fron	n French articles
	ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and		
04XFP1	French for Advanced Students P1	Z	2
	e objective of this three-semester course is to improve and further develop communication in the French language in both w		
	in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gen		
•	The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are routly be consisted in the following specific topics are covered: University studies in our country and in France, writing of transactions		•
	dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top		
•	stry. Reading of technical and popular science texts, further work with these texts and interpretation.		,
04XFP2	French for Advanced Students P2	Z	2
	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	. – .	
technical and scientific	communication are stressed (passive voice, nominalization, word formation).		
04XFP3	French for Advanded Students P3	Z	2
The course is focused of	n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	engineering envir	onment. Special
skill - translation of short	ter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally co	vers a technical /a	pplied science
topic. It is a creative wo	rk compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFZ1	French for Beginners Z1	Z	2
ŭ	e objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in	ŭ	•
	ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able		
· · · · ·	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdite ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions		-
	nple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia	-	_
04XFZ2	French for Beginners Z2	7	2
-	with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of	the textbook: Pray	
- ·			
Trendition beginners.	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem	ent - disagreemer	nt, apology,
•	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	ŭ	
thanking, travelling, map		ŭ	
thanking, travelling, map	o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	ŭ	
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thanking, travelling, map How does the machine 04XFZ3 The course builts upon Topics, functions and si pronunciation practice.	of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commowork? A few expressions concerning the study. Name of University and Faculty.  French for Beginners Z3  FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Functions are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in Reading covers short adapted texts of general interest first, and later popular science texts.	Z Pravdová: French nformation and lou	c topics covered:  2 for Beginners. ud as part of
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04XNP2	German for Advanced Students P2	Z	2
•	estudents' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend		
	oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	a practising formal	communication,
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	ariety of less comi	
	r accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v		
	ing, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use		
practice to and from Ge	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
04XRM1	Russian for Intermediate Students M1	Z	2
	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal		
basic vocabulary for cor	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask	ing the way and g	iving directions),
_	nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	level of the RZ2	course. The
	he course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	-	2
04XRM2	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
04XRM3	Russian for Intermediate Students M3	Z	2
	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h		
in the timetable.		, , , , , , ,	
04XRP1	Russian for Advanced Students P1	Z	2
The entrance requireme	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	acticing more diffi	cult grammar
	ng the fundamentals of technical language and training writing skills.		
04XRP2	Russian for Advanced Students P2	Z Z	2
	RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication.	verb aspects, spe	ediic syntactic
04XRP3	Russian for Advanced Students P3	Z	2
	RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra		
courses require good p	revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).	The courses deve	elop and expand
	dy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and		-
· ·	cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and wit	th confidence on
technical topics. 04XRZ1	Russian for Beginners Z1	Z	2
	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus:		_
	or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	_	- 1
a short text with marker			
a short text with market	d stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
04XRZ2 The second semester of	Russian for Beginners Z2 fthe programme is designed to teach skills for basic communication in everyday situations and for reading easy and short so	ubtechnical texts.	Students will be
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04XSP3	Spanish for Advanced Students P3	Z	2
	nal part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is foci	used on written cor	nmunicatio
ased on what stude	ents will need in their career.		
04XSZ1	Spanish for Beginners Z1	Z	2
Course SZ1 is the fire	st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamen	tal grammar structi	ures and w
e able to communi	cate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and	will develop it.	
04XSZ2	Spanish for Beginners Students Z2	Z	2
-	d on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis	_	
	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other		
Realia of Spanish-s	peaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
	on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	_	_
	ays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative).		
	given general topic, for which the student is trained by reading texts or listening to them.		
04XSZ4	Spanish for Beginners Z4	Z	2
	on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish:		
	on to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the		-
	ommunication 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
	re supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo		
	anish course based on the course book will end with presentations and, finally, a written and oral examination.		
	List of courses of this pass:		
Codo	List of courses of this pass:	Completion	Crodi
	Name of the course	Completion	Credit
00MAM1	Name of the course  Essentials of High School Course 1	Z	1
	Name of the course  Essentials of High School Course 1 Essentials of High School Math Course 2	<u> </u>	
00MAM1	Name of the course  Essentials of High School Course 1	Z Z	1
00MAM1	Name of the course  Essentials of High School Course 1 Essentials of High School Math Course 2	Z	1
00MAM1 00MAM2	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2  Review of basics of high school mathematics.	Z Z	1
00MAM1 00MAM2 00PT 00RET	Name of the course  Essentials of High School Course 1 Essentials of High School Math Course 2 Review of basics of high school mathematics.  Preparatory Week	Z Z Z Z Z	1 1 2 1
00MAM1 00MAM2 00PT 00RET The course is focus	Name of the course  Essentials of High School Course 1 Essentials of High School Math Course 2 Review of basics of high school mathematics.  Preparatory Week Rhetoric	Z Z Z composition of pul	1 1 2 1 solic speed
00MAM1 00MAM2 00PT 00RET The course is focus as well as to its r	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2  Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	Z Z Z composition of pul	1 1 2 1 Dlic speed course.
00MAM1 00MAM2  00PT 00RET The course is focus as well as to its r 01ANB3	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2 Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the onverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar Calculus B 3	Z Z Z composition of put integral part of the Z,ZK	1 1 2 1 blic speede course. 8
00MAM1 00MAM2 00PT 00RET The course is focus as well as to its r 01ANB3 1. Functional sequences	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2 Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are are Calculus B 3  uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional	Z Z Z composition of put integral part of the Z,ZK series, power series	1 1 2 1 blic speed course. 8 es, Series
00MAM1 00MAM2  00PT 00RET The course is focus as well as to its r 01ANB3 1. Functional seques Expansion, Taylor	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2  Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are are Calculus B 3  uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional is theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation	Z Z Z composition of pul integral part of the Z,ZK series, power series of variables, hom	1 1 1 2 1 1 olic speece e course. 8 ess, Series
00MAM1 00MAM2  00PT 00RET The course is focus as well as to its r 01ANB3 1. Functional sequence Expansion, Taylor equation and exact expansion and exact expansion and exact expansion and exact expansion.	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2  Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are are Calculus B 3  uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional (st theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficients.	Z Z Z composition of pul integral part of the Z,ZK series, power series of variables, hom fficients and specia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
00MAM1 00MAM2  00PT 00RET The course is focus as well as to its r 01ANB3 1. Functional sequence Expansion, Taylor equation and exact exide, Euler differentiates	Name of the course  Essentials of High School Course 1  Essentials of High School Math Course 2  Review of basics of high school mathematics.  Preparatory Week  Rhetoric  sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are are calculus B 3  uences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional (st theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coeful equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated an	Z Z Z composition of pul integral part of the Z,ZK series, power serie of variables, hom ifficients and specia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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[1] Diferenciální po et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4] Regulární zobrazení, zám na prom nných, nekartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstrukce Lebesgueovy míry. [7] Integrální po et funkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgueova v ta. Limita, spojitost a derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.

01FKO Functions of Complex Variable Z,ZK 3

The course starts from outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are explained in detail: the derivative of a complex function and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauchy's integral theorem, Morera's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue theorem.

01LAL | Linear Algebra 1 | Z | 2 | 1. Vector space. 2. Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear mappings. 7. Frobenius

1. Vector space. 2. Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear mappings. 7. Frobenius theorem.

01LAL2 Linear Algebra 2 Z,ZK 4

Outline: 1. Inverse matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and quadratic forms. 5. Scalar product and orthogonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matrices. 2. Methods of calculation of determinants. 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonality. Calculation of orthogonal complements. 6. Geometry – exercises and examples. 7. Adjoint operators.

01LALZ	Linear Algebra 1, exam	ZK	2
01MAN	Calculus 1	Z	4
'	Basic calculus (real analysis, functions of one real variable, differential calculus).		
01MAN2	Calculus 2	Z,ZK	8
1 Continuation of	differential calculus Taylor's Palynamials, Taylor's formula 2. Infinite agricus exitaris of convergence, aparations on agrics, absolute as	, , d , a a a diti a a a l , a a a .	

1. Continuation of differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute and conditional convergence 3. Real and complex power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integrals: primitives, definite integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral

(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral

O1MANZ

Calculus 1, exam

ZK

4

MIDDEL	Probability and Statistics	Z,ZK	4
01PRST It is a basic course	of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	•	
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the		and proved.
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing	<u> </u>	7
01RMAF   The subject of this of	Equations of Mathematical Physics course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr	Z,ZK ansformations, a	1
	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	a, a.	
02BPQT1	Bachelor Thesis 1	Z	5
Bachelor's thesis or	the selected topic under the supervision of a selected supervisor, based on the assignment approved by the guarantor, department h	ead and the dean	. Supervision
02BPQT2	and regular checking of the project under preparation by the supervisor is performed by means of personal consultations.  Bachelor Thesis 2	Z	10
	the selected topic under the supervision of a selected supervisor, based on the assignment approved by the guarantor, department h	_	-
	and regular checking of the project under preparation by the supervisor is performed by means of personal consultations.		
02DEF1	History of Physics 1	Z	2
	ice in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F		
neienistic period,	as experimental science. Newton and his work.	nuygens. The birt	ii oi priysics
02DEF2	History of Physics 2	Z	2
	classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		
	anism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er		
and relativistic pi	standard model. The concept of Nature and Universe of today.	lergy, Elementary	particles,
02DPD1	Detectors and Principles of Detection 1	ZK	2
Abstract: The lectu	res introduce the main forms of interaction of some particles with matter. The goal is that the student gets an overview of what type of	of processes are	oossible and
	in which situations they may be dominant. Some applications to Medicine and to study the fundamental structure of matter are pre		
02DPD2	Detectors and Principles of Detection 2 ctures introduce the main ideas needed to understand how detector systems work. It will be focused on gaseous detecting principles	ZK	4
Abstract. The let	semiconductor detecting principles. Basic information about various detector constructions is provided.	, sommating print	ipies and
02ELMA	Electricity and Magnetism	Z,ZK	6
_	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond	=	=
	Electrodynamic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,N		
02EXF	Experimental Physics ject is to introduce the students the principles of physics measurements, their techniques, methods and instruments that are used for	ZK	2 ents and the
The goal of the oab		oudii iiidadai diii	orno, aria trio
	analysis of measured data.		
02FYS1	analysis of measured data.  Physical Seminar 1	Z	2
The seminar is d	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics	presented in the	course of
The seminar is d Mecha	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora	s presented in the atory equipments	course of
The seminar is d Mecha	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora  Quantum Mechanics 1	s presented in the atory equipments Z,ZK	course of
The seminar is d Mecha	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora	s presented in the atory equipments Z,ZK	course of
The seminar is d Mecha	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora  Quantum Mechanics 1 e describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we	s presented in the atory equipments Z,ZK	course of
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The seminar is dependent of the seminar is dependent of the seminar is dependent of the seminar is defined as the seminar is dependent of the seminar is defined as the semina	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora  Quantum Mechanics 1 e describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we that it includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.  Quantum Mechanics 2  ure expands the introduction to quantum mechanics with more general formalism of quantum theory, approximate methods and path thods used in various applications of quantum mechanics and prepares the students for an effective scientific research and further students.	s presented in the atory equipments Z,ZK II as its time evolu Z,ZK in integral. It summ	6 course of 6 detailed by 6 de
The seminar is d Mecha  02KM1  Abstract: The lecture  02KM2  Abstract: The lect terminology and me	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora  Quantum Mechanics 1 e describes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as we that it includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.  Quantum Mechanics 2  ure expands the introduction to quantum mechanics with more general formalism of quantum theory, approximate methods and path	s presented in the atory equipments Z,ZK II as its time evolu Z,ZK in integral. It summ	6 course of 6 detailed by 6 de
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02TEF1 Theoretical Physics 1 Z,ZK The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism as well as diferent approaches to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2). 02TEF2 Theoretical Physics 2 Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and classical field theory in the Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic radiation in the dipole approximation. 02TER Heat and Molecular Physics Thermal expansion of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic principle, ideal and real gas, entropy; non-chemical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory. Maxwell's velocity distribution, equipartition theorem. Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelier principle. Statistical entropy Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical ensemble, Fermi gas, models of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. 02UFEC Introduction to Elementary Particle Physics The course provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject are presented. 02UKT Introduction to Quantum Theory Ζ 2 The aim of the lecture is to introduce the basic principles of quantum theory and its interpretation on simple examples. 02VOAF Waves, Optics and Atomic Physics Z,ZK Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems. Foundations of Physical Measurements 1 The lecture is designed for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be attended by students of other branches. The goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data on a PC. Students learn the basic habits of work in a physics lab. Foundations of Physical Measurements 2 The lecture is designed for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be attended by students of other branches. The goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data on a PC. Students learn the basic habits of work in a physics lab. 04AKS **English Conversation** The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication. The student will develop their vocabulary for various communication situations and will master their communication strategy. They will also practise their listening skills in order to better follow and participate in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more confident speaker. 04XAM1 English for Intermediate Students M1 The course is designed for students who have successfully completed the full secondary school English language course at least at the A2 level of the Common European Framework of Reference for Languages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of vocabulary and style typical of professional oral and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical interest. Attention is also paid to extending the knowledge of grammar issues used in EAP. English for Intermediate Students M2 The AM2 course expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on specific grammar, functions, and lexical items typical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided writing. If necessary, grammar revision is included. English for Intermediate Students M3 04XAM3 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. 04XAMZK English for Intermediate Students Examination 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. English for Advanced Students P1 04XAP1 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc.). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application, polite request). If necessary, revision of selected grammar topics is included. 04XAP2 English for Advanced Students P2 Ζ 2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various types of descriptions, and, if possible, a case study), Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and paragraph structure, linking, cohesion and coherence in texts. 04XAP3 English for Advanced Students P3 The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.

04XAPZK	English for Advanced Students Examination	ZK	4
	is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a topic from		-
04XCESM1		Z	2
	Czech for Foreigners - Intermediate 1 ed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the st	_	I
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04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readin		_
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
The last course re	evises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	ally focused on st	ylistics and
	lexicology and on developing the student's writing skills.		
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
The course content	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	M1,2,3 courses a	and can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sci		
	ial style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S		_
basies of fariotion	includes communication with teachers and faculty administrators.	Stadent Lile. White	cii piaolioc
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	s the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	_	1
	emphasis on individual work.		
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
The course develop	s the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	and, finally, prese	ntation of the
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course conten	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	SP1,2,3 courses a	ind can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
_	ned for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g		-
•	anguage and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communic		
•	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course,		
communicative situa	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.	the students will I	nave reached
communicative situa	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2	the students will I	nave reached
04XCESZ2 The language and c	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.	the students will I  Z  onjugation system	and practise
04XCESZ2 The language and c	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2  communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and co	the students will I  Z  onjugation system	and practise
04XCESZ2 The language and c	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2  communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and conference of frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of	the students will I  Z  onjugation system	and practise
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04XCESZ2 The language and communication of  04XCESZ3 The course further correct pronunciation	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2 communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and confrequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of have reached A2 (CEFR) approximately.  Czech for Foreigners - Beginners 3  r develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on ion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and	Z enjugation system the course, the s  Z building up basic they practise free	2 and practise tudents will 2 vocabulary, quent types
04XCESZ2 The language and communication of  04XCESZ3 The course further correct pronunciation of dialogue. The	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2 communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and confrequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of have reached A2 (CEFR) approximately.  Czech for Foreigners - Beginners 3  r develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on ion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and ey also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons	Z enjugation system the course, the s  Z building up basic they practise fre 5-7 in , estina ex	2 and practise tudents will 2 vocabulary, equent types xpres 1".
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O4XCESZ2 The language and communication of  O4XCESZ3 The course further correct pronunciation of dialogue. The O4XCESZZK The course conter  O4XFM1 French - intermedia will be able to corrinformation and to siskills gained in previto an advert, FOUT O4XFM2 Course FM2 builds cand scientific language participle structure field of students' fut and one  O4XFMZK The content is the  O4XFP1 FP advanced course be able to community solve problems. F	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2  communication competences acquired in CES21 are further developed. Students extend their knowledge of Czech declension and conference to the course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of have reached A2 (CEFR) approximately.  Czech for Foreigners - Beginners 3  r develops the language and communication competences acquired in the XCES21 and XCES22 courses. The teaching focuses on ion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and ey also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons  Czech for Foreigners — Beginners - Examination  nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1  tet FM The objective of this three-semester course is to improve and further develop communication in the French language in both vimmunicate 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, systerious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and e	z polygation system the course, the students will lead to be a course, the students will lead to be a course, the students and oral for semizes and expandal statement, record based on these z z s, features typical and technological from From and coherence z K f FM1-FM3. The state and technical infeated and expandated an	and practise tudents will  2 and practise tudents will  2 vocabulary, quent types spres 1".  4 ses and can  2 rm. Students declaring the same can be texts.  2 If or technical gy, French  2 If or technical gy, French  2 Students will bormation and add subjonctif,
O4XCESZ2 The language and communication of  O4XCESZ3 The course further correct pronunciation of dialogue. The O4XCESZK The course conter  O4XFM1 French - intermedia will be able to corrinformation and to siskills gained in previto an advert, FOURSE of Course FM2 builds and scientific language.  O4XFM3 The course is focuse participle structure field of students' fut and one  O4XFMZK The content is the  O4XFP1 FP advanced course be able to communito solve problems. Fpassé composé-imp	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2  communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and confrequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of have reached A2 (CEFR) approximately.  Czech for Foreigners - Beginners 3  r develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on individence of the course of the c	the students will I  Z  polyagation system the course, the students will I  Z  building up basic of they practise free 5-7 in , estina esterior estimates and oral for estimates and expansional statement, record based on these of the statement or estimates and technologies. The paper is licompiled from From and coherence of the statement of the statement or and technologies. The paper is licompiled from From and coherence of the statement of the	and practise tudents will  2 and practise tudents will  2 vocabulary, quent types expres 1".  4 des and can  2 rm. Students d technical ds language quest, answer e texts.  2 I for technical gy, French  2 itive clauses, nked to the ench articles express express express express express 1".  2 Students will promation and express expres
O4XCESZ2 The language and communication of  O4XCESZ3 The course further correct pronunciation of dialogue. The O4XCESZK The course conter  O4XFM1 French - intermedia will be able to corrinformation and to siskills gained in previto an advert, FOURSE of Course FM2 builds and scientific language.  O4XFM3 The course is focuse participle structure field of students' fut and one  O4XFMZK The content is the  O4XFP1 FP advanced course be able to communito solve problems. Fpassé composé-imp	ations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, A1 (CEFR) approximately.  Czech for Foreigners - Beginners 2  communication competences acquired in CES21 are further developed. Students extend their knowledge of Czech declension and conference to the course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of have reached A2 (CEFR) approximately.  Czech for Foreigners - Beginners 3  r develops the language and communication competences acquired in the XCES21 and XCES22 courses. The teaching focuses on ion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and ey also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons  Czech for Foreigners — Beginners - Examination  nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1  tet FM The objective of this three-semester course is to improve and further develop communication in the French language in both vimmunicate 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, systerious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and e	the students will I  Z  phijugation system the course, the students with the course, the students of the course, the students of the practise free 5-7 in , estina experience and oral for the course of the course	and practise tudents will  2 and practise tudents will  2 vocabulary, quent types expres 1".  4 des and can  2 rm. Students did technical did language quest, answer e texts.  2 I for technical gy, French  2 ittive clauses, nked to the rench articles express express 1".  2 Students will ormation and ed: subjonctif, al statement,

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).	ven topics. Feature	es typical of
04XFP3	French for Advanded Students P3	Z	2
The course is focus	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng	jineering environme	ent. Special
skill - translation of	if 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 /applie	ed science
04XFPZK	topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Advanced Students Examination	ZK	4
	program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a		
THE WHOLE THEHE	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra	-	ooraing to
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	-	
	les 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 - Pravda at the ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe		- 1
	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu		
04XFZ2	French for Beginners Z2	Z	2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the		
_	ners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic	-	
trialikirig, travellirig	How does the machine work? A few expressions concerning the study. Name of University and Faculty.	ation. Specific topi	cs covered.
04XFZ3	French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra	vdová: French for E	
Topics, functions	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info	ormation and loud a	as part of
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4	French for Beginners Z4 sup on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor	Z	2
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		
	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping		0 0
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, interne	et.	
04XFZ5	French for Beginners Z5	Z	2
	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To		
-	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate class)		
	subjunctive clauses, gerund, passive.	, ,,	,
04XFZZK	French for Beginners Examination	ZK	3
The content is the	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination	ation is ruled by the	document
04781844	Instruction for examination. Its content covers the levels FZ1 - FZ5.  German for Intermediate Students M1	7	
04XNM1  The objective of the	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st	Z   ructures (e.a. the pa	2 assive) and
-	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		ntals of IT
	terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders		
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 beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and o	0,	* 1
	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic		
	phenomena important for professional discourse (participles, relative clauses).		
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	=-	- 1
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and or information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemation	•	
present control of	phenomena important for professional discourse (participles, relative clauses).	, g	,
04XNMZK	German for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of	-	
and oral, which co	over the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment is to be obtained from the teacher.	ent. More detailed in	nformation
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 de	_	-
more difficult gramr	nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practice of the properties of the pr	tical everyday com	munication,
04XNP2	i.e., telephoning.  German for Advanced Students P2	Z	2
	German for Advanced Students P2 so the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending		
	t introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra	•	
	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi-	<del>-</del>	
04XNP3	German for Advanced Students P3	Z	2
	sts 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 Igineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
-	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		
	practice to and from German.		

04XNPZK	German for Advanced Students Examination	ZK	4
The course conten	it is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c	onsisting of two pa	irts - written
and oral, which o	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded	d assessment. Mor	e detailed
	information is to be obtained from the teacher.		1
04XRM1	Russian for Intermediate Students M1	Z	2
_	gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (		
	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking	, , ,	
they can use bas	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement l		urse. The
	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab		
04XRM2	Russian for Intermediate Students M2	Z	2
	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the		_
04XRM3	Russian for Intermediate Students M3	Z	2
The course develor	os the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe	ever, for half of the t	time allotted
	in the timetable.		
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	It is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	ructions by the tea	
04XRP1	Russian for Advanced Students P1	L	2
i ne entrance req	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prac	ticing more aimcur	t grammar
047000	structures, understanding the fundamentals of technical language and training writing skills.	7	
04XRP2	Russian for Advanced Students P2	Z	2
I ne course is bas	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	erb aspects, specifi	c syntactic
0.41/10.00	structures). Stress is put on independent oral and written communication.	-	
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing		
	od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and wi	· · · · · · · · · · · · · · · · · · ·	-
	er study is arried at professional and technical skills (reading technical interactive according to the students' specialization, oral and with choical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc	•	•
develop their subte	technical topics.	uratery aria with co	indende on
04XRPZK	Russian for Advanced Students Examination	ZK	4
	it is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	1	
	lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	-	
04XRZ1	Russian for Beginners Z1	7	2
_	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	. Thus it begins wit	l
· ·	bet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	-	_
		,	
	a short text with marked stress, understand its contents and summarize it.		
04XRZ2		Z	2
04XRZ2 The second semes	a short text with marked stress, understand its contents and summarize it.  Russian for Beginners Z2  ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte		-
The second semes	Russian for Beginners Z2	echnical texts. Stud	lents will be
The second semes	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte	echnical texts. Stud o develop their voc	lents 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 subteste using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also	echnical texts. Stud o develop their voc	lents will be
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 subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	echnical texts. Stud o develop their voc writing.	dents will be abulary and
The second semes able to communica  04XRZ3  The course is base	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte the using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3	chnical texts. Stud o develop their voc writing.  Z various forms of re	dents will be cabulary and 2 cading skills
The second semes able to communica  04XRZ3  The course is base	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte the using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 and on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training	chnical texts. Stud o develop their voc writing.  Z various forms of re	dents will be cabulary and 2 cading skills
The second semes able to communica  04XRZ3  The course is base	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte the using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 and 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	chnical texts. Stud o develop their voc writing.  Z various forms of re	dents will be cabulary and 2 cading skills
The second semes able to communica 04XRZ3 The course is base and listening) an 04XRZ4	Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte the using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 and on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training dintroduces 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.	or develop their voc writing.  Z various forms of real able to respond so	dents will be abulary and 2 eading skills o as to be
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04XSP1 Course concentrat	Spanish for Advanced Students P1 es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. of CEFR.	Z Course prerequisi	2 tes: level B2
04XSP2	Spanish for Advanced Students P2 second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta	Z	2
	written communication.	A and locuses on i	паерепает
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 focu	used on written con	nmunication
04XSPZK	Spanish for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a		
	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	e student.	
04XSZ1	Spanish for Beginners Z1	Z	2
	first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	-	
	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	ish and will develo	
04XSZ2	Spanish for Beginners Students Z2	Z	2
	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis		
them to understan	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other	s such as the Czed	h Republic.
	Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
The course is base	ed on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	e Spanish-speakin	g countries,
mainly of Spain.	It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	). It includes writter	n and oral
	communication on a given general topic, for which the student is trained by reading texts or listening to them.		
04XSZ4	Spanish for Beginners Z4	Z	2
	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countries	s, mainly of
Spain. It pays atte	ention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	imperative, and su	ubjunctive),
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listeni	ng to them.	
04XSZ5	Spanish for Beginners Z5	Z	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for	r specific purpose:	s. In its final
	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina		
04XSZZK	Spanish for Beginners Examination	ZK	3
	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	I	_
	passed the written examination test.	,,	-, -, -, -, -, -, -, -, -, -, -, -, -, -
11KPRA1	Quantum Laboratory 1	KZ	4
	the semester, the students will gain basic practical skills in laser physics and usually used measurement methods and techniques. In	I	•
	s on tasks in preparation of low-dimensional systems, physics of low temperatures and basic structure and spectroscopic methods of		
11SFIPL	Seminar on Solid State Physics	KZ	2
	he Seminar and ?SSS? software features. 2.Module "bravais" - crystal structure and X-ray diffraction in 2D ? theory 3.Simulations of		
	es: crystal lattice versus crystal structure, primitive cell, elementary cell, lattice plane, reciprocal grid, Laue and Bragg condition, atom	-	
_	ractical structural analysis 4. Module "laue" - Diffraction on perfect and imperfect crystals 5. Simulations: influence of structural disorder on	_	
	cillations, quasi crystals 6. "born" module - dynamics of crystalline grid in 1D ? theory 7. Simulations: planar waves, traveling and stand		
	y and momentum transport, infinite chain, chain of finite lenght, boundary conditions, wave packets, group and phase velocity, dispersion	_	
localized modes, a	nharmonicity 8. "debye" module - lattice dynamics and thermal capacity ? theory 9. Simulations: Brillouine zone, dispersion relation, de	nsity of states, ther	mal energy,
heat capacity 10."	drude" module - dynamics of classical electron gas in 2D ? theory 11.Simulations: diffuse electron movement, electron drift in an exte	ernal electric field, l	laynes and
Shockley experime	ent, electron mobility, electron motion in magnetic field, cyclotron frequency, Hall experiment, magnetorezistence 12.Assignment, elab	oration and presen	tation of the
	seminar work.		
11UFPLN	Introduction to Solid State Physics	ZK	2
	The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.		
11ZFPL	Basic to Solid State Physics	KZ	2
Description of fund	lamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding	g interaction betwe	en atoms in
solids, various type	es of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basi	c thermal propertie	s of crystals
are derived. The	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in	n solids by means	of electron
energy bands e	xplained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s	systematically intro	duce and
	interpret a broad phenomenological basis of physical properties of crystalline solids		
12KOE	Fundamentals of Classical Optics and Electrodynamics	ZK	4
The lecture is focu	sed on the basics of classical optics and electrodynamics, which is important especially in relation to quantum optical theory. The lect	ure deals with elec	tromagnetic
theory, physical	optics, material aspects of optical phenomena, introduction to geometrical optics, and fundamentals of nonlinear optics, including dis	persion theory of I	near and
nonlinear respons	e in optical media, including anisotropic ones. Attention is also given to beam optics. Further, it focuses on the implications of statistic	cal properties of lig	nt, explains
the basics of diffra	action theory and holography. It explains the relation between wave optics and ray optics, describes light propagation in term of rays, a	and outlines the fur	ndamentals
of instrumental of	ptics. It also includes the basics of guided waves and resonators - the theory of guided waves in waveguides and optical fibers, wave	guide modes and v	vaveguide
	dispersion, reciprocity theorem and optical resonator theory.		
12LAS	Laser Systems	Z,ZK	3
	e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. C		
and raman lasers	. Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi	•	asers. High
	power continuous lasers. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron I		
12MOF	Molecular Physics	ZK	2
	ideas on multi-atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure-to-physical properties relations.		
12NME1	Numerical Methods 1	Z,ZK	4
· ·	d the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me		· -
important for phys	sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computations	ional environment	MATLAB is
I	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		

12PYTH	Scientific Programming in Python	Z	2
	rse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place		
problems. The course is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or student theses. Students are also involved in ongoing research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or functional programming. The			
greater part of the course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy and the Matplotlib graphics			
3 1	library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.		3 1, 11
12UFN	Introduction to Photonics and Nanostructures	KZ	3
Overview of nanost	tructures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanoplasm	onics; optical wave	eguides and
	fibers; integrated photonics; computer simulations; technological realization; student presentations		_
12ULAT	Introduction to Laser Technique	KZ	2
Overview of electr	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers; laser amplifier, Q-switching, mode-locking.	laser safety preca	utions. The
12UMF	Introduction to Modern Physics	Z	3
	ded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A	_	
	in a computational laboratory.	•	
12UNXAP	Introduction to UNIX	Z	2
-	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface		
Principles of operating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with files. Text editors: vi, emacs.			
Command interpreter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard tools. Graphical user interface			
A-windows. Con	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a configuration of a	omputer. Network s	services:
12UVP	Introduction to Scientific Computing	Z	2
-	d Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s	_	
•	and technicval computing, data analysis, data visualisation and algorithm development.		
12VKT	Vacuum Technology	KZ	4
-	basic concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surface		
transport through solid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their properties:-Positive displacement			
pumps: Diaphragm, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorption pumps, Sublimation and NEG pumps, Ion getter pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Materials and vacuum components			
NEO pumps, ion g	and seals.Practical exercises.	iais and vacuum o	omponents
12VTV	Scientific and Technical Computing	Z	2
	familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their program	ming. The course i	s oriented
	mainly to programming in the Fortran language.		
12ZEL1	Basic Electronics 1	Z,ZK	3
	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	-	
circuits include symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effects inside linear circuits.  12ZEL2 Basic Electronics 2 Z,ZK 3			
	vs up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	, ,	
12ZFS	Fundamentals of Photonic Structures	Z.ZK	2
_	the basics of photonic structures, it classifies photonic structures compares them with the electronic structures, summarizes their pre	, ,	
Specifically, the lecture discusses the basic physics and technology of optical waveguides; it introduces basic linear, nonlinear, and active structures of integrated photonics for			
applications in optical communications and sensors. Next, the attention is given to introduction of plasmonic structures and plasmonics, periodic structures and photonic crystals,			
metamaterials, metasurfaces, and finally to photonic structures for quantum technologies. Finally, the lecture is closed with student presentations on selected relevant topics and excursions to selected photonic laboratories.			
12ZPLT	Basic Laser Technique Laboratory	KZ	6
	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic,		
diode, diode pumped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto-optic modulators.			
14TED	Creating Electronic Documents	Z	2
Basic skills for crea	ting and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentation	ns and entire docu	ments in an
	office suite.		
17UING	Introduction to Engineering	KZ	3
•	des introduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and beha nd production, quality assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will		nutacturing
18PRC1	Programming in C++ 1	Z	4
TOFICE	This course covers mainly the C programming language and non-object oriented features of the C++ language.	۱ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	4
18PRC2	Programming in C++ 2	KZ	4
	ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	l l	•
18ZPRO Basics of Programming Z 4			
This course is intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming and with the Python			
	programming language.	<del> </del>	
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1

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