## Study plan

## Name of study plan: Fyzikální inženýrství - Laserová technika a fotonika

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Physical Engineering

Type of study: Bachelor full-time

Required credits: 0

Elective courses credits: 180 Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses in the specialization

Minimal number of credits of the block: 0

The role of the block: PS

Code of the group: BSPFILTF1

Name of the group: BS P\_FIB LTF 1st year

Requirement credits in the group:

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

Credits in the group: 0

Note on the group: Podmínkou skládání zkoušky 01MANZ je získání zápočtu z 01MAN.Podmínkou skládání

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

18ZPRO	Maksym Dreval, Nichita Vatamaniuc, Jan Vondruška, Vladimír Jarý, Miroslav Z Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa,  Miroslav Virius Miroslav Virius (Gar.)		4C	Z	PS	
Characteristics	s of the courses of this group of Study Plan: Code=BSPFILTF1 Name=	BS P_FIB	LTF 1st ye	ar		
D2DEF1	History of Physics 1				Z	2
hysics and its plac	ce in the system of sciences. The relationship of man and nature. Natural sciences in ancient Or	ientand Greece	e, Greek natur	al philosoph	ers, Aristo	tle. Physics in
elenistic period, A	rchimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E	Bruno. Copernio	cus, Kepler, G	alileo, Huyge	ens. The bi	rth of physics
s experimental sci	ence. Newton and his work.					
2ELMA	Electricity and Magnetism			Z	,ZK	6
lectric charge, Cou	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectri	cs. Electric cur	rent and circu			of the relativi
eory. Electrodynai	mic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagnet	ic waves, Max	well equation	ns.	
1LAL	Linear Algebra 1	<del></del>			Z	2
	Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	5. Linear mapp	inas. 6. Matrio	es of linear	_	
eorem.						
1LALZ	Linear Algebra 1, exam				ZK	2
1LAL2	Linear Algebra 2				.ZK	4
	natrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector	diogonalizatio	n) 4 Hormitia	1	, I	•
	onality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Me		•	•		
•	Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.					
	·	5. Scalar produ	ict and orthog	onality. Calc	uiation of t	ortnogonai
•	eometry exercises and examples. 7. Adjoint operators.					
1MAN	Calculus 1				Z	4
	analysis, functions of one real variable, differential calculus).					
1MANZ	Calculus 1, exam				ZK	4
1MAN2	Calculus 2			Z	,ZK	8
Continuation of d	ifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen	ce, operations	on series, abs	olute and co	nditional c	onvergence 3
eal and complex p	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic	on of infinite ser	ies. 4. Theory	of integrals:	primitives,	definite integ
Riemann definition	), techniques of integration and application of integrals, Generalized Riemann integral					
2MECH	Mechanics				Z	4
_	sics, physical quantities and units. Kinematics of a particle, basic types of motion and their super	position. Dvna	mics of a part	icle. solvina	eguations	of motion for
	otion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a syst		•		•	
a rigid body, rotat	•		,			
2MECHZ	Mechanics - Examination				ZK	2
-	subject is the examination according to the plan of studies.					_
OPT	Preparatory Week				Z	2
2TER	Heat and Molecular Physics		10.14	ı	,zk	. 4
•	of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and per					•
	cal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials;	kinetic theory:	Maxwell's vel	ocity distribu		artition theore
8ZPRO	Basics of Programming				Z	4
nis course is inten	ded mainly for students with little or no experience in programming. It familiarizes the students with little or no experience in programming.	vith the basic c	oncepts in pro	ogramming a	ınd with th	e Python
ogramming langu						

Code of the group: BSPFILTF2

Name of the group: BS P\_FIB LTF 2nd year

**Basics of Programming** 

Requirement credits in the group:

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

Credits in the group: 0

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

	ize absolvovat az po absolvovani predmetu 02ELMA a 02TEF1.								
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			
02PRA1	Experimental Laboratory 1  Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	Z	PS			
02PRA2	Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	PS			
12LTB1	Laser Technique 1 Helena Jelínková, Jan Šulc, Michal N mec Jan Šulc Helena Jelínková (Gar.)	Z,ZK	3	2P+1C	L	PS			
01ANB3	Calculus B 3 Miroslav Kolá, Milan Krbálek Milan Krbálek Miroslav Kolá (Gar.)	Z,ZK	8	4P+4C		PS			
01ANB4	Calculus B 4  Ji í Mikyška, Miroslav Kolá <b>Ji í Mikyška</b> Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		PS			
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	PS			
02TEF1	Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.)	Z,ZK	4	2+2	Z	PS			
02TEF2	Theoretical Physics 2 Petr Novotný, Filip Petrásek Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	PS			

02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS
12ZMDT	Measurement and Data Processing Ivan Procházka, Josef Blažej Josef Blažej Ivan Procházka (Gar.)	Z,ZK	2	1P+1C	Z	PS
02PRA1	Experimental Laboratory 1	ile=B3 F_I IB L	ii ziiu y		ΚZ	6
	f the courses of this group of Study Plan: Code=BSPFILTF2 Nan Experimental Laboratory 1	ne=BS P_FIB L	IF 2nd y		ΚZ	6
	pecially for students who intend to study some of the physical specializations of FNSPE()	branch Physical Eng	ineerina. Ni	ıclear Engine	erina). But	it can be also
Lecture is intended esp attended by students in	pecially for students who intend to study some of the physical specializations of FNSPE(I terested in the otherspecializations. In Experimental laboratory students learn how to prepare of different experimental procedures and routines), willteach writing the records of	are for experiments (i	ncluding wo	rk with theliter	ature), the i	mplementation
Lecture is intended esp attended by students in of the measurement (a	· · · · · · · · · · · · · · · · · · ·	are for experiments (i	ncluding wo	rk with theliter	ature), the i	mplementation
Lecture is intended esp attended by students in of the measurement (a	terested in the otherspecializations. In Experimental laboratory students learn how to prepar cquire of different experimental procedures and routines), willteach writing the records o	are for experiments (i	ncluding wo	rk with theliter evaluation of	ature), the i	mplementati

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. 12LTB1 Laser Technique 1 Z.ZK 3

Open resonators. Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an approximation of the fundamental mode. ABCD method. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion, saturation. Coherent and

non-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator. 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.

01ANB4 Calculus B 4

[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.

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.

02TFF1 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 formalisms as well as diferent approaches to description of dynamics (Newtons, 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

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.

02VOAF

Waves, Optics and Atomic Physics

Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction to quantum 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.

12ZMDT

Measurement and Data Processing

Basic knowledge for the measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeties, data fitting, separation of the signal from the noise.

Code of the group: BSPFILTF3

Name of the group: BS P\_FIB LTF 3rd year

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

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
12BPFI1	Bachelor Project 1 Ivan Richter Ladislav Kalvoda (Gar.)	Z	5	0P+5C		PS
12BPFI2	Bachelor Project 2 Ivan Richter Ladislav Kalvoda (Gar.)	Z	10	0P+10C		PS
02KM1	Quantum Mechanics 1 Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	Z	PS
12LTB2	Laser Technique 2 Helena Jelínková, Václav Kube ek Václav Kube ek Helena Jelínková (Gar.)	Z,ZK	3	2P+1C	Z	PS
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C		PS
11BSEM	Bachelor Seminar Radka Mika Havlíková, Ladislav Kalvoda Ladislav Kalvoda (Gar.)	Z	1	0P+2C	L	PS
12ZPLT	Basic Laser Technique Laboratory Josef Blažej, Václav Kube ek Josef Blažej Václav Kube ek (Gar.)	KZ	6	0+4	L	PS
12ZPOP	Basic Optical Laboratory Alexandr Jan árek Alexandr Jan árek (Gar.)	KZ	6	0+4	L	PS
12ZELD	Fundamentals of Electrodynamics  Milan Ši or Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PS
12ZFS	Fundamentals of Photonic Structures Ivan Richter, Ji í tyroký Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2P	L	PS
11ZFP	Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Ladislav Kalvoda (Gar.)	ZK	3		Z	PS
11ZFPL	Basic to Solid State Physics Eva Mihóková	KZ	2	26P+0C	Z	PS
12ZAOP	Fundamentals of Optics Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PS

excursions to selected photonic laboratories.

Basic to Solid State Physics

interpret a broad phenomenological basis of physical properties of crystalline solids

11ZFP

IZZAOF	Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	Ζ,ΖΚ		2+0		P3
Characteristics	s of the courses of this group of Study Plan: Code=BSPFILTF3 Nam	ne=BS P_FIB L	TF 3rd ye	ear		
12BPFI1	Bachelor Project 1	<del>-</del>			Z	5
The bachelor projec	ct is based on a topic approved by the administrators of the programme, department and by the	e dean. The student	is guided by	the project s	upervisor d	uring commo
egular meetings ar	nd discussions.					_
12BPFI2	Bachelor Project 2				Z	10
The bachelor projec	ct is based on a topic approved by the administrators of the programme, department and by th	e dean. The student	is guided by	the project s	upervisor d	uring commo
egular meetings ar	nd discussions.					
)2KM1	Quantum Mechanics 1			Z,	ZK	6
Abstract: The lectur	re describes the birth of quantum mechanics and description of one particle and more particle	s by elements of the	Hilbert spa	ce as well as	ts time evo	lution. Besid
hat it includes desc	cription of observable quantities by operators in the Hilbert space and calculation of their spe	ectra.				
12LTB2	Laser Technique 2			Z,	ZK	3
aser oscillator, the	e rate equation, the laser amplifier, Q-switching, mode-locking				'	
1RMAF	Equations of Mathematical Physics			Z.	ZK	7
he subject of this	course is solving integral equations, theory of generalized functions, classification of partial of	differential equations	s, theory of i	ntegral transfo	rmations,	and solution
	equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).					
1BSEM	Bachelor Seminar				Z	1
n the first part of th	ne seminar, students familiarize themselves with the general principles of publishing and pres	enting scientific worl	k and the for	mal requirem	ents for ba	chelors degre
projects at the facul	ilty. The second part is designed as a practical training for the defence of the bachelors degre	e project. The stude	ents give ora	I presentation	s of the cu	rrent state of
he research results	s achieved during the work on their projects. Each presentation is followed by a discussion on s	scientific matters as	well as on th	e possibilities	of improvir	g the studer
erformance.						
2ZPLT	Basic Laser Technique Laboratory			ŀ	Σ	6
asers, solid state I	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-swi	tching, laser amplifi	er. second h	armonic, He-l	Ne glow dis	charges, las
liode, diode pumpe	ed Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, las	er beam transverse	profile, acou	usto-optic mo	dulators.	
2ZPOP	Basic Optical Laboratory			ŀ	Σ	6
he practical labora	atories give advanced practical skills by experimental work in optics and optoelectronics. Lab	oratory records mus	st be elabora	ated.	'	
2ZELD	Fundamentals of Electrodynamics			Z.	ZK	2
ubject starts by de	erivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macros	copic theory. Using	special theo			_
ansformation of fie		almhaltz agustiana	are derived.	By expansion	into plane n	_
aves methods of s	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H	emnonz equations a				re found for
on-isotropic. Finall	· · · · · · · · · · · · · · · · · · ·	•		ith absoption,	with disper	re found for nonochroma
2ZFS	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H	exity: isotropic witho	ut losses, w			re found for nonochroma sion, and
221 3	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H solving these equations are studied in homogeneous media with gradually increasing comple	exity: isotropic witho	ut losses, w	y appropriate		re found for nonochroma sion, and
_	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H solving these equations are studied in homogeneous media with gradually increasing completly, solution in weakly non-homogeneous madia is presented using the method of eiconal. Inc	exity: isotropic witho lividual chapters are	ut losses, w illustrated b	y appropriate Z,	examples.	re found for nonochroma rsion, and
he lecture covers	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H solving these equations are studied in homogeneous media with gradually increasing completly, solution in weakly non-homogeneous madia is presented using the method of eiconal. Incomplete Fundamentals of Photonic Structures	exity: isotropic witho lividual chapters are ectronic structures,	ut losses, we illustrated be	y appropriate Z, their prepara	examples.  ZK  tion and ch	re found for nonochroma rsion, and 2 aracterizati
The lecture covers to specifically, the lect	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H solving these equations are studied in homogeneous media with gradually increasing completly, solution in weakly non-homogeneous madia is presented using the method of eiconal. Inc  Fundamentals of Photonic Structures the basics of photonic structures, it classifies photonic structures compares them with the electric structures.	exity: isotropic witho lividual chapters are ectronic structures, near, nonlinear, and	ut losses, w illustrated b summarizes active struc	y appropriate Z, their prepara tures of integr	examples.  ZK tion and chated photo	re found for nonochroma rsion, and 2 aracterizatinics for
The lecture covers of Specifically, the lecture applications in optical of the second	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and H solving these equations are studied in homogeneous media with gradually increasing completly, solution in weakly non-homogeneous madia is presented using the method of eiconal. Incomplete Fundamentals of Photonic Structures  the basics of photonic structures, it classifies photonic structures compares them with the electure discusses the basic physics and technology of optical waveguides; it introduces basic limited.	exity: isotropic witho lividual chapters are ectronic structures, near, nonlinear, and uctures and plasmou	ut losses, we illustrated be summarizes active structics, periodi	by appropriate Z, their prepara tures of integic c structures a	examples.  ZK tion and chated photonic photonic examples.	re found for nonochroma rsion, and  2 aracterizationics for c crystals,

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

ZK

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

12ZAOP Fundamentals of Optics

Z,ZK

2

The lecture covers the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geometrical optics. The main goal of the lecture is to obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respect to character of the bachelor work. Particular topics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in vacuum (including polarization effects), and further from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next informs on consequences in anisotropic media, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference processes, explains elements of two-wave interference and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphical form, including fundamentals of grating diffraction. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit. It takes notice on geometrical approach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instruments.

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: BSPFILTFPV1

Name of the group: BS P\_FIB LTF Required optional courses 1st year

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:

Studenti si volí alespoň 1 předmět.

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
12UFN	Introduction to Photonics and Nanostructures Ivan Richter, Pavel Kwiecien, Jan Proška Ivan Richter Ivan Richter (Gar.)	KZ	3	2P+1C	L	PV
12ULTB	Introduction to Laser Technique Helena Jelínková, Jan Šulc, Michal N mec Jan Šulc Helena Jelínková (Gar.)	KZ	3	2P+1C	L	PV

## Characteristics of the courses of this group of Study Plan: Code=BSPFILTFPV1 Name=BS P\_FIB LTF Required optional courses 1st year

12UFN	Introduction to Photonics and Nanostructures	KZ	3				
Overview of nanost	uctures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanopi	lasmonics; optical	waveguides and				
fibers; integrated photonics; computer simulations; technological realization; student presentations							
12ULTB	Introduction to Laser Technique	KZ	3				
1	Introduction to Laser Technique agnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase	KZ ers; laser safety pr	3 recautions. The				

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

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

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

00EKOT	Economy in Technology	Z	1
The course introduces t	the basics of micro- and macroeconomics		

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

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

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04XAMZK	English for Intermediate Students Examination Jana Ková ová, Slav na Brownová Jana Ková ová	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners Beginners - Examination Slav na Brownová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

English for Intermediate Students Examination 04XAMZK ZK The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses. 04XAPZK English for Advanced Students Examination ZK

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

The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to apply their knowledge obtained in the three AP courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from the student's field of study.

Czech for Foreigners Beginners - Examination

The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04XCESZ1,2,3 courses and can only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.

04XCESMZK Czech for Intermediate Students Examination

The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESM1,2,3 courses and can only be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.

04XCESPZK Czech for Foreign Students - Advanced Examination ZK

The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESP1,2,3 courses and can only be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.

04XFMZK French for Intermediate Students Examination

The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.

04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The		l according to
Examination Instructions, a document available on the web. Assessment of the presentation is in		J
04XFZZK French for Beginners Examination	ZK	3
The content is the examination as given by the study plan. The course is terminated with an exa	mination consisting of oral and written part. The examination is ruled by	y the document
Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNMZK German for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Interme	diate Students Course is completed by an examination consisting of tw	o parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part	t successfully and after obtaining the 04NM3 assessment. 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 Advan	ced Students Course is completed by an examination consisting of two	parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written par	successfully and after obtaining the 04NP3 ungraded assessment. Mo	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 to		•
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a succession.	seful written examination. Students are given instructions by the teache	er.
04XRPZK Russian for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by ta		•
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a succes		
04XRZZK Russian for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. The course is completed by to		•
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a success		ī
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 part, students wi	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	· · · ·	al part is having
passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3		
04XSZZK Spanish for Beginners Examination	ZK	3
The course content is the examination as given by the study plan. Examination consists of two p	parts - written and oral. Student can register for oral examination 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: BSPFILTFV

Name of the group: BS P\_FIB LTF Optional courses

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

Credits in the group: 0 Note on the group:

Note on the	group:					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
12APL	Application of Lasers Helena Jelínková, Alexandr Jan árek Helena Jelínková Helena Jelínková (Gar.)	Z,ZK	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V
14ELM	Electron Microscopy Miroslav Karlík Miroslav Karlík (Gar.)	KZ	2	2P+0C		V
01FKO	Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		V
02FYS1	Physical Seminar 1 Martin Štefa ák Filip Petrásek (Gar.)	Z	2	0+2	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
02KM2	Quantum Mechanics 2 Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4P+2C	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 B e 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

12MPP1	Microprocessor Laboratory 1  David Vyhlídal David Vyhlídal (Gar.)	KZ	4	0+3	Z	V
12MPP2	Microprocessor Laboratory 1  David Vyhlídal David Vyhlídal (Gar.)	KZ	4	0+3	L	٧
12MPR1	Microprocessors 1  Miroslav ech Miroslav ech (Gar.)	ZK	4	4+0	Z	V
12MPR2	Microprocessors 2 Miroslav ech Miroslav ech (Gar.)	ZK	2	2+0	L	V
12MOF	Molecular Physics Jan Proška, Martin Michl Martin Michl Jan Proška (Gar.)	ZK	2	2+0	L	٧
12NT	Nanotechnology Jan Proška, Eduard Hulicius Jan Proška Eduard Hulicius (Gar.)	ZK	2	2+0	Z	V
01NME2	Numerical Methods 2  Michal Beneš Michal Beneš (Gar.)	KZ	2	2+0	L	V
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	٧
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
12OSY	Operating Systems  Miroslav ech Miroslav ech (Gar.)	ZK	3	3+0	Z	V
12PAS	Computer Algebra Systems  Milan Ši or Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	Z	V
01PRST	Probability and Statistics	Z,ZK	4	3+1	Z	V
18PRC1	Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)  Programming in C++ 1	Z	4	2+2	Z	V
18PRC2	Vladimír Jarý, Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)  Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	KZ	4	2+2	L	V
12RSEN	Control Systems and Sensors  David Vyhlídal David Vyhlídal David Vyhlídal (Gar.)	Z,ZK	4	4	Z	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, Ji í Martin ík Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
11UFP	Introduction to Solid State Physics Petr Kolenko (Gar.)	ZK	3		L	V
11UFPLN	Introduction to Solid State Physics Petr Kolenko	ZK	2	2+0	L	٧
01UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		V
01UP2	Introduction to Probability 2 Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		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	٧
12VTV	Scientific and Technical Computing Ivan Procházka Ivan Procházka (Gar.)	Z	2	1+1	L	٧
12VPMF	Selected Topics in Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.)	Z	3	2P+1C	L	V
12VFT	High Frequency and Impulse Circuitry  Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	2	2+0	L	V
12EPR1	Basic Electronics Practicum 1 Ivan Procházka, Jaroslav Pavel Ivan Procházka Ivan Procházka (Gar.)	KZ	3	0+2	Z	V
12EPR2	Basic Electronics Practicum 2 Ivan Procházka, Jaroslav Pavel Ivan Procházka Ivan Procházka (Gar.)	KZ	3	0+2	L	٧
18ZALG	Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	٧
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	٧
02ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Martin Štefa ák Petr Chaloupka	ZK	2	2P+0C	Z	V
	(Gar.)				,	

12ZFP	Principles of Plasma Physics Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.)	Z,ZK	4	3+1	L	V
12ZFD	Physical Data Visualization Josef Blažej Josef Blažej (Gar.)	KZ	2	1P+1C	Z	V
haracteristics of th	e courses of this group of Study Plan: Code=BSPFILTFV Name	=BS P_FIB L	TF Optio	nal cours	es	
	pplication of Lasers ustrial technologies, medicine, remote sensing, energetics, telecommunication, military,	, entertainment ar	nd other bra		,ZK	2
	istory of Physics 2			1	Z	2
•	nechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics,	•		-	_	
	electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its lnck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfo					
	ept of Nature and Universe of today.		,		,	,
	lectron Microscopy			1	<z< td=""><td>2</td></z<>	2
	students are introduced to the microscopic methods used for the characterization of ma	=	15			
0, 0	electron microscopy and to various types of microscopes. An important part of the cours and tools used in microscopy and to the description of particular parts of the microscop	•				
	and imaging techniques are also covered. A particular attention is given to analytical m			•	•	, .,,
1FKO F	unctions of Complex Variable			Z	,ZK	3
	ining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of	· · ·		· ·		
•	he Cauchy-Riemann equations, holomorphic and analytic functions, the index of a poin rphic function, analytic continuation, isolated singularities, the maximum modulus princip	•			•	
leorem, roots of a flotofflo leorem.	principalities, the maximum modulus princip	ole, Liouville's triet	nem, me Ca	uchy esimale	es, Lauren	. Series, residue
	hysical Seminar 1				Z	2
he seminar is devoted to	detailed study of interesting physical problems. It should help students to deeper under					course of
	are chosen, studied and presented by the students themselves, with the possibility to u	se PC and physic	al laboratory	equipments.		
-	nglish Conversation		, .		Z	
· ·	e student's communication skills acquired throughout their previous studies. It aims to in s communication situations and will master their communication strategy. They will also					
•	t will be trained to express their ideas clearly and according to current English usage, a	•	•		iei ioliow a	na participate
	uantum Mechanics 2			· .	,ZK	6
stract: The lecture expar	nds the introduction to quantum mechanics with more general formalism of quantum the	eory, approximate	methods a	1		narizes the
	used in various applications of quantum mechanics and prepares the students for an effe	ective scientific res	earch and f	urther study, i	n particula	r, of the moder
mulations of quantum fie	·				714	
	aser Systems ond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumper	d solid state laser	s Tunabla la		,ZK	3
	nductor lasers for pumping of solid state lasers and diode pumped solid state lasers Am				-	_
	nfrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. F					, 5
0MAM1 E	ssentials of High School Course 1				Z	1
	mathematical concepts and methods used in the introductory physics course.					
-	ssentials of High School Math Course 2				Z	1
eview of basics of high so				<u> </u>	/ <del>7</del>	
	licroprocessor Laboratory 1 development board based on PIC16F873A and PIC16F877A microcontrollers, develop	oment environmer	ot MDLARY		√Z   O program	4 mar ASIY I ID
·	gger. Programming in assembly and C language for microcontrollers. Basic operations				o program	illei, AOIX OI
<del></del>	licroprocessor Laboratory 1				ΚZ	4
l l	6F877A internal modules on PVK40 development board: PWM module (Capture/Comp	pare), parallel con	nmunication	interface (co	ntrolling ch	aracter LCD
	ion interface USART, serial communication interface I2C/SPI, microcontroller PIC18F4	5K20				
· ·	licroprocessors 1			1	ZK	4
•	computer, microprocessor types, memory types CPU, memory, Input output. Code and O devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction		•		•	
SC processors - principle		011 00003 7.030111	ordi aria ivia	oroassembler,	programm	iii ig iai igaagee
	licroprocessors 2				ZK	2
	pes and addressing. Memory segmentation and paging. Real and privileged mode. Inst	truction set, Asser	mbler. descr		Į.	
2MOF N	lolecular Physics			7	ZK	2
	molecules and molecular matter, and on structure-to-physical properties relationship. M	ethods of molecu	lar structure			
	anotechnology			1	ZK	2
	dents mainly to modern technological methods of preparation of semiconductor, metal a E, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention			-		
	Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" to		-	_		
	as well. Some supportive technical methods - lithography, diffusion, evaporation, ion imp					
well as soldering and er	icasement.					
1	umerical Methods 2			l l	<b>ΚΖ</b>	2
	merical solution of boundary-value problems and intial-boundary-value problems for ord o initial-value problems and finite-difference methods for elliptic, parabolic and first-ord				piains metl	noas convertin
	o initial-value problems and finite-difference methods for elliptic, parabolic and first-ordi	or hyperbolic part	ıdı dillelelilli		Z	3
	nerieral Chemistry 1 ots, quantities and units used in chemistry are introduced in the course General Chemis	stry I. Their sianifi	cance and n	l l		_
	, , and the second of the seco	, 0.8				.,
lved in exercises.				7	,ZK	3
olved in exercises.  5CH2 G	eneral Chemistry 2				,∠r\	3
5CH2 G	tion of the course General chemistry I. The main attention is paid to general principles		-	s. Using vario	us exampl	es, the fact tha
GCH2 Good Good Good Good Good Good Good Goo	<u>-</u>		-	s. Using vario	us exampl	es, the fact tha

12OSY	Operating Systems	ZK	3
Operating systems kern	el, memory management, process, multitasking, interprocess communication, input/output, drivers, queues, client-server, inter	net communicatio	n, Multilanguage
environment, user interf	face, system security, open systems.		
12PAS	Computer Algebra Systems	Z	2
· ·	oduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is r	ealized in comput	er classrooms:
	skills with CAS by solving relatively simple and basic tasks from mathematics and physics.		
01PRST	Probability and Statistics	Z,ZK	4
1	robability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition at	-	_
	is random variable, distribution function of random variable and characteristics of random variable are treated and basic limit ory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are exp		.ea ana provea.
18PRC1	Programming in C++ 1	Z	4
	FTOGRATHTHING IT CTT   nly the C programming language and non-object oriented features of the C++ language.	4	4
18PRC2	Programming in C++ 2	KZ	4
	object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template		7
12RSEN	Control Systems and Sensors	Z,ZK	4
	the theory, analysis, and implementation of linear analog and digital control systems, as well as sensors for various physical		·
	deling and simulation using MATLAB, along with practical measurements conducted by the students on a continuous system with	•	
with an electric motor) of	or a continuous system with discrete control (temperature control using a thermoelectric cooler module).	-	
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		7	2
	Creating Electronic Documents  and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, present		_
office suite.	and presenting student theses. Individual exercises locus on creating and formatting texts, equations, charts, tables, present	ations and entire t	documents in an
11UFP	Introduction to Solid State Physics	ZK	3
	printipoduction to Solid State Physics e fundamentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to		
11UFPLN	Introduction to Solid State Physics	ZK	2
_	rure is to introduce the undergraduate students to the study of the solid state physics.		2
01UP1	Introduction to Probability 1	Z.ZK	3
	e set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and	. , .	-
	y, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and me	-	•
1	ue 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants	arr value on robio	ino involving the
01UP2	Introduction to Probability 2	Z,ZK	3
	tinuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introductio		-
	nerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristic		
estimations. 7. Generati	ing pseudorandom numbers from the selected distribution.		
12UNXAP	Introduction to UNIX	Z	2
Computer and operating	g systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	ice. Hardware and	l software.
Principles of operating s	systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working	g with files. Text ed	ditors: vi, emacs.
1	shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard	· ·	
· ·	networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a computer networks.	computer. Network	services:
	scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
· ·	oduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with	n some basic tools	s fort scientific
	ng, data analysis, data visualisation and algorithm development.	1/7	4
12VKT	Vacuum Technology	KZ	4
_	concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid sur matter; evaporation, condensation;Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their	•	
	ting vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adso		
	pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Ma		
and seals.Practical exer			
12VTV	Scientific and Technical Computing	Z	2
	ar with methods of solving of computational problems in the scientific and technical practice, and with methods of their progra		
mainly to programming	in the Fortran language.		
12VPMF	Selected Topics in Modern Physics	Z	3
The aim of this course i	s to improve students knowledge in modern parts of physics (such as measuring of gravitational waves, neutrinos, discovery	of Higgs boson, p	rinciples of light
emitting diodes,) with	a partial help of computer algebra systems (e.g. Maple). Apart from the other courses related to modern physics taught in thi	is study program,	this course does
	athematical formalism of studied phenomena. Therefore, the secondary aim is the increase of students motivation for deeper	understanding of	modern physics
and its laws in their follo			
12VFT	High Frequency and Impulse Circuitry	Z,ZK	2
_	o collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation	n solution, Gunn's	diodes, high
	rowaves guidelines, striplines, oscillators, amplifiers and pulse generators.		_
12EPR1	Basic Electronics Practicum 1	KZ	3
· ·	m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation	on of the results. T	ne practicum
consists of blocks lastin		1/7	
12EPR2	Basic Electronics Practicum 2	KZ	3
consists of blocks lastin	m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation	on on the results. I	ne practicum
18ZALG		Z,ZK	1
	Basics of Algorithmization to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the		4 Jexity
scarco lo devoled l		a.gommin oomp	

12ZEL1	Basic Electronics 1	Z,ZK	3
The subject provide	s primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir	cuit analysis meth	ods for linear
circuits include sym	bolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effec	cts inside linear cir	cuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follows	up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic t	hemes of logical of	circuits field.
02ZM1	Foundations of Physical Measurements 1	ZK	2
The lecture is design	ned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,	it can be attended	d 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 discourse described by the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired discourse described by the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired discourse described by the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired discourse described by the lecture is to introduce the basics of physical measurements.	ata on a PC. Stud	ents learn the
basic habits of work	in a physics lab.		
02ZM2	Foundations of Physical Measurements 2	KZ	4
The lecture is design	ned 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 discourse	ata on a PC. Stud	ents learn the
			onto todini tito
basic habits of work			onto locarri tilo
basic habits of work		Z,ZK	4
12ZFP	in a physics lab.	Z,ZK	4
12ZFP Basic physics of hig	in a physics lab.  Principles of Plasma Physics	Z,ZK linear theory of wa	4 aves in plasmas
12ZFP Basic physics of hig and propagation of	in a physics lab.  Principles of Plasma Physics h temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants,	Z,ZK linear theory of wa	4 aves in plasmas
12ZFP Basic physics of hig and propagation of	in a physics lab.    Principles of Plasma Physics     h temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and para	Z,ZK linear theory of wa	4 aves in plasmas

Code of the group: BSPJAZYKYZAP Name of the group: BS P jazyky zap Requirement credits in the group: Requirement courses in the group:

Vector graphics basics, scientific plots, dala visualization basics, measurements results presentation

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, <b>authors</b> and guarantors (gar.)					
04XAM1	English for Intermediate Students M1  Jana Ková ová	Z	2	0+2	Z	٧
04XAM2	English for Intermediate Students M2  Jana Ková ová	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3  Jana Ková ová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1  Jana Ková ová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2  Jana Ková ová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3  Jana Ková ová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3  Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	٧
04XCESM1	Czech for Foreigners - Intermediate 1  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	٧
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  Jana Ková ová 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	٧
04XCESP2	Czech for Foreigners - Advanced 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	٧
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V

	French for Advanded Students P3	<u> </u>	I -		_	
04XFP3	V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
	Deatriz Vaulilo Gulizalo Deatriz Vaulilo Gulizalo (Gar.)	1				

Characteristics of the courses of this group of Study Plan: Code=BSPJAZYKYZAP Name=BS P jazyky zap

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.

Z

04XAM2	English for Intermediate Students M2	Z	2
=	s the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guid		
revision is included.	or ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guid	ied writing. If fiece	essary, grammar
04XAM3	English for Intermediate Students M3	Z	2
The course develops the	skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtech	nical vocabulary a	and independent
<del>-</del> :	sional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The course student's field.	also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentatio	n on a chosen top	oic related to the
04XAP1	English for Advanced Students P1	Z	2
	for students who have successfully completed the full secondary school English language course (at least the B1 level of the	_	
-	ges - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament		•
	cal of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, and written communication on topics related to the undergraduate´s life and needs. It develops skills for free professional writing	•	
•	sary, revision of selected grammar topics is included.	(Withing a C v, lette	er or application,
04XAP2	English for Advanced Students P2	Z	2
	d on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen by		- 1
	oncentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetor		
	ossible, a case study). Increasing emphasis is placed on the undergraduate´s independent work with and reading of linguistic student´s subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal v	•	•
	ing, cohesion and coherence in texts.	3 3 .	
04XAP3	English for Advanced Students P3	Z	2
	d on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. I	•	
	d functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writion a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal lange.	-	
communication.	on a given or one-contropic and proceduling it. The course placed emphasis on destinguishing foreign or formal and informal and	gaago boar ar ora	and written
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
<del>-</del>	for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic an	_	
	and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communicati overs roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	on in the most co	mmon everyday
04XCESZ2	Czech for Foreigners - Beginners 2	7	2
	nunication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and of	onjugation syster	
	pics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.		
04XCESZ3	Czech for Foreigners - Beginners 3 lops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses o	Z	2
	ion and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produ		
frequent types of dialogu	ue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers rough	hly lessons 5-7 in	n eština expres
1.			
04XCESM1	Czech for Foreigners - Intermediate 1  n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the	Z Z	2
social situations.	Tooliot protationation, important morphological protonomal, propositional princedo, and volocionio de nomae on extending an	o diadoni o vocas	laiding for various
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
	e topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and rea	ding skills and tra	ins the student
04XCESM3	on abbreviations, abbreviated words, and mathematical terms and formulas.  Czech for Foreigners - Intermediate 3	Z	2
	morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec	=	
	oping the student's writing skills.	,	,
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	ourse is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Eu	-	
· · ·	vision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of s e of engineering and professional communication, both in spoken and written form. The topics include University Studies and		-
=	with teachers and faculty administrators.	Otadoni Eno. Win	itori praotioo
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a	nd specialist texts	placing greater
emphasis on individual	<del>_</del>	7	2
04XCESP3 The course develops the	Czech for Foreigners - Advanced 3 e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation	Z   on, and, finally, pre	2 esentation of the
=	g skills necessary for professional communication are trained.	.,,,, , , , ,	
04XFM1	French for Intermediate Students M1	Z	2
	M The objective of this three-semester course is to improve and further develop communication in the French language in both		
	cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra- 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, per	-	
	ture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work	based on these te	
04XFM2	French for Intermediate Students M2	Z tovto footuroo tun	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 scie		
	chitects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (a mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl		
•	npound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-ci specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w		
	ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and continuous control of the structure	· ·	
		<del></del>	

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 re		
•	ait, pronouns. 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	•	
internet, physics, chemi	stry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2	French for Advanced Students P2	Z	2
With the link to P1 conte	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	n given topics. Fe	atures typical of
	communication are stressed (passive voice, nominalization, word formation).		
04XFP3	French for Advanded Students P3	Z	2
	n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in		•
	ter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally co rk compiled from 3 French sources. Preparation of several set topics for oral examination.	vers a tecnnicai /a	pplied science
04XFZ1	French for Beginners Z1	Z	2
-	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	_	_
_	ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able	-	•
level, actively using the	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd	ová, French for be	ginners
	ite ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions	• •	
<u> </u>	nple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncial	tion and grammar.	
04XFZ2	French for Beginners Z2	Z	2
	with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		
_	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	-	
	work? A few expressions concerning the study. Name of University and Faculty.	iunication. Specific	c topics covered.
04XFZ3	French for Beginners Z3	Z	2
-	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F	_	<del>-</del>
· · · · · · · · · · · · · · · · · · ·	tuations 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.		·
04XFZ4	French for Beginners Z4	Z	2
The course builds up or	FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The o	contents is roughly	covered with
lessons 19 - 23 of the tex	xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the le	cture notes French	for Engineering
	purse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	pping, weather, ur	niversity in our
	now to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
04XFZ5	French for Beginners Z5	Z	
•	n FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The		
		Tonice: on physics	from locturo
-	ered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. In science and technology information about France, Grammar is systemized and complemented with syntax (subordinate cl		
-	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl		
notes, success of Frence subjunctive clauses, ger	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl rund, passive.		
notes, success of Frence subjunctive clauses, get 04XNM2	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl	auses, typical con	junctions,
notes, success of Frence subjunctive clauses, get 04XNM2 The course introduces of	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl rund, passive.  German for Intermediate Students M2	auses, typical con	junctions,  2 logy and society,
notes, success of Frence subjunctive clauses, get 04XNM2 The course introduces of the world at the beginning practise reading for information of the success	th science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate clarund, passive.  German for Intermediate Students M2  there more complex grammatical structures and their application in communication based on technical texts, such as the relation of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	auses, typical con  Z  n between technold car technology e	junctions,  2 logy and society, tc. Students
notes, success of Frence subjunctive clauses, get 04XNM2 The course introduces of the world at the beginning practise reading for information of the success	th science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate claud, passive.  German for Intermediate Students M2  ther more complex grammatical structures and their application in communication based on technical texts, such as the relation of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system or professional discourse (participles, relative clauses).	Z n between technold car technology enatically revises of	junctions,  2 logy and society, tc. Students ther grammatical
notes, success of Frence subjunctive clauses, get 04XNM2 The course introduces of the world at the beginning practise reading for inforphenomena important for 04XNM1	th science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate claud, passive.  German for Intermediate Students M2  ther more complex grammatical structures and their application in communication based on technical texts, such as the relation of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system or professional discourse (participles, relative clauses).  German for Intermediate Students M1	Z n between technol d car technology e natically revises of	junctions,  2 logy and society, tc. Students ther grammatical
notes, success of Frence subjunctive clauses, get 04XNM2 The course introduces of the world at the beginning practise reading for inforphenomena important for 04XNM1 The objective of the course.	th science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate claud, passive.  German for Intermediate Students M2 of the rore complex grammatical structures and their application in communication based on technical texts, such as the relation of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system or professional discourse (participles, relative clauses).  German for Intermediate Students M1 or the students of the student	Z n between technol d car technology e natically revises of	junctions,  2 logy and society, tc. Students ther grammatical  2 the passive) and
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04XRM2	Russian for Intermediate Students M2	Z	2
04XRM3	on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.  Russian for Intermediate Students M3	Z	2
-	the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h	1	1
in the timetable.			
04XRP1	Russian for Advanced Students P1	Z	2
•	ment for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	racticing more diff	ficult grammar
04XRP2	Inding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2	Z	2
	on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives,	_	1
	put on independent oral and written communication.	rola deposit, ep	555 5y
04XRP3	Russian for Advanced Students P3	Z	2
	on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra		
· -	I previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).		
	study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and Inical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	-	•
technical topics.	inical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and w	itti comidence oi
04XRZ1	Russian for Beginners Z1	Z	2
The course represen	ts the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus	sian. Thus it begi	ns with mastering
•	t (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	king). Students w	ill be able to read
	ked stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
	r of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short su using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will		
	natical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.	also develop tile	ii vocabulary ari
04XRZ3	Russian for Beginners Z3	Z	2
-	on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	_	_
and listening) and int	roduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be	oe able to respon	d so as to be
understood, and to e	xpress their opinion. Writing skills will be trained on guided writing tasks and note-taking.		
04XRZ4	Russian for Beginners Z4	Z	2
	on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with	-	-
words, oral communi	cation in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular ver	ros, amerences ir	i verb pallerris
		and practice oral	-
from Czech, modality	, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time),		and written
from Czech, modality communication on m			and written
from Czech, modality communication on m	r, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), ore specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.		and written
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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		
	tion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.	imperative, and s	ubjunctive),
04XSZ5	Spanish for Beginners Z5	Z	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo	r specific purpose	s. In its final
part, the general S	panish course based on the course book will end with presentations and, finally, a written and oral examination.		
	List of courses of this pass:		
	List of courses of this pass.		
Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology	Z	1
	The course introduces the basics of micro- and macroeconomics.		<u>'</u>
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
00144140	Students are introduced to mathematical concepts and methods used in the introductory physics course.		
00MAM2	Essentials of High School Math Course 2 Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
00RET	Rhetoric	7	1
	used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	. –	ıblic 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 th	ne course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
	quences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional	-	
	or's 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.		-
	tial equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated an	=	-
	ss of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fouri	_	
series and their co	onvergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total of the series of the serie		ngent plane,
01ANB4	Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equation  Calculus B 4	s. Z,ZK	6
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Integrální po et f	unkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu	ieova v ta. Limita,	spojitost a
04510	derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.	7.71/	
01FKO	Functions of Complex Variable rom outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are e	Z,ZK	3
	on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauc	•	
	holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy est	, ,	
	theorem.		
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2	<ol> <li>Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of theorem.</li> </ol>	inear mappings. 7	. Frobenius
01LAL2	Linear Algebra 2	Z,ZK	4
	Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an	1 '	1
product and orthog	gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matri	ices. 2. Methods	of calculation
of determinants.	3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonali	ty. Calculation of o	orthogonal
041.41.7	complements. 6. Geometry exercises and examples. 7. Adjoint operators.	71/	
01LALZ	Linear Algebra 1, exam	ZK Z	4
01MAN	Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).		4
01MAN2	Calculus 2	Z,ZK	8
1. Continuation of	differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a	nd conditional cor	
Real and complex	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ	rals: primitives, de	finite integral
0414417	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	71/	4
01MANZ	Calculus 1, exam	ZK	4
01NME2 The course is devot	Numerical Methods 2 ted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.	KZ	2
	dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial diffe	-	as something
01PRST	Probability and Statistics	Z,ZK	4
It is a basic course	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	continuing till the	-
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the		and proved.
On th	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testi	ng are explained.	

01RMAF	Equations of Mathematical Physics	Z,ZK	7
The subject of this	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	ansformations, and	d solution of
01UP1	Introduction to Probability 1	Z,ZK	3
	vith finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and go	,	
4.Conditional proba	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants	value 6.Problems i	nvolving the
01UP2	Introduction to Probability 2	Z,ZK	3
	el continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of		nnection to
measure theory. 4.	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6. estimations. 7. Generating pseudorandom numbers from the selected distribution.	. Elementary metho	ods for point
02DEF1	History of Physics 1	Z	2
Physics and its pla	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	sophers, Aristotle.	Physics in
Helenistic period,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, Fase experimental science. Newton and his work.	Huygens. The birth	of physics
02DEF2	History of Physics 2	Z	2
	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E	-	
	vanism, 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 standard model. The concept of Nature and Universe of today.		
02ELMA	Electricity and Magnetism	Z,ZK	6
-	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, I	-	- 1
02FYS1	Physical Seminar 1	Z	2
	evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics anics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora		course of
02KM1	Quantum Mechanics 1	Z,ZK	6
Abstract: The lectur	re 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.	II as its time evolut	ion. Besides
02KM2	Quantum Mechanics 2	Z,ZK	6
	ture expands the introduction to quantum mechanics with more general formalism of quantum theory, approximate methods and path	_	
terminology and me	ethods used in various applications of quantum mechanics and prepares the students for an effective scientific research and further stu formulations of quantum field theory.	ıdy, in particular, of	the modern
02MECH	Mechanics	7	4
		_	
milioduction to pri	lysics, pnysical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	lving equations of	motion for
-	ysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,		
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-	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination		
one-dimensional n	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination  The content of the subject is the examination according to the plan of studies.	particle collisions.	Mechanics 2
one-dimensional n	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination  The content of the subject is the examination according to the plan of studies.  Experimental Laboratory 1	particle collisions.  ZK  KZ	Mechanics 2
02MECHZ  02PRA1 Lecture is intended	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination  The content of the subject is the examination according to the plan of studies.  Experimental Laboratory 1 d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering).	particle collisions.  ZK  KZ  ngineering). But it	Mechanics  2  6 can be also
02MECHZ  02PRA1  Lecture is intended attended by studential	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination  The content of the subject is the examination according to the plan of studies.  Experimental Laboratory 1  d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Ensisteriested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the cacquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation	particle collisions.  ZK  KZ  ngineering). But it eliterature), the imp	Mechanics  2  6 can be also olementation
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02ZM1	Foundations of Physical Measurements 1	ZK	2
The lecture is desi	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it contains the content of the content o	an be attended b	y students of
other branches. T	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	on a PC. Stude	nts learn the
007140	basic habits of work in a physics lab.		
02ZM2	Foundations of Physical Measurements 2	KZ	4
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c		-
other branches. I	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	on a PC. Stude	nts learn the
0441/0	basic habits of work in a physics lab.	7	1
04AKS	English Conversation  evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communica	Z	1 1
	or various communication situations and will master their communication strategy. They will also practise their listening skills in order to		· ·
=	liscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more con		a participato
04XAM1	English for Intermediate Students M1	7	2
-	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	ommon Europea	I
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of		
professional oral a	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical inte	erest. Attention is	also paid to
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
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 gramma	ar, functions,
and lexical items ty	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided	writing. If necess	ary, grammaı
	revision is included.		
04XAM3	English for Intermediate Students M3	Z	2
	ps the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical	-	
ŭ	f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The co	purse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation or	a chosen topic	related to the
04\/ 0.471/	student's field.	71/	1
04XAMZK	English for Intermediate Students Examination	ZK	4
	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts 30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three E		in) and orai
04XAP1	English for Advanced Students P1	7	2
-	igned for students who have successfully completed the full secondary school English language course (at least the B1 level of the Co	_	_
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament		
	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gr		
-			
	I oral and written communication on topics related to the undergraduate´s life and needs. It develops skills for free professional writing (wr	-	of application,
	I oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (wr polite request). If necessary, revision of selected grammar topics is included.	-	of application,
04XAP2		-	of application,
-	polite request). If necessary, revision of selected grammar topics is included.	iting a CV, letter	2
The AP2 course is	polite request). If necessary, revision of selected grammar topics is included.  English for Advanced Students P2	iting a CV, letter  Z  ches of science	2 According to
The AP2 course is the students' need of descriptions, an	polite request). If necessary, revision of selected grammar topics is included.  English for Advanced Students P2 based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brar is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical id, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall	Z ches of science functions (e.g., y more demandi	2 According to various types ng materials.
The AP2 course is the students' need of descriptions, an	polite request). If necessary, revision of selected grammar topics is included.  English for Advanced Students P2 based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brands it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical difference in the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science.	Z ches of science functions (e.g., y more demandi	2 According to various types ng materials.
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The AP2 course is the students' need of descriptions, and The course extend 04XAP3 The AP3 course is communication ske	polite request). If necessary, revision of selected grammar topics is included.  English for Advanced Students P2 based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brards it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical difference in texts.  Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3 based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	Z sches of science functions (e.g., y more demandi ng including the  Z sludes training or an abstract) and	2 According to various types ng materials. sentence and 2 al and written d, if possible,
The AP2 course is the students' need of descriptions, and The course extend 04XAP3 The AP3 course is communication ske	polite request). If necessary, revision of selected grammar topics is included.  English for Advanced Students P2  based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brards it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical difference in texts. It is focused on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.	Z sches of science functions (e.g., y more demandi ng including the  Z sludes training or an abstract) and	2 According to various types ng materials. sentence and 2 al and written d, if possible,
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04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CE	SP1,2,3 courses and o	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
The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and	1	
	-	
acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	n in the most common	everyday
situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.		
04XCESZ2 Czech for Foreigners - Beginners 2	Z	2
The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and compared to the compared to the declension and compared to the compa	onjugation system and	practise
basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.		
04XCESZ3 Czech for Foreigners - Beginners 3	Z	2
The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses or	n building up basic voca	abulary,
ixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produc	e simple texts and they	y practise
requent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers rough	ly lessons 5-7 in eštin	na expres
1.	•	.
04XCESZZK Czech for Foreigners Beginners - Examination	ZK	4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04	1	- 1
	7,000021,2,5 courses a	and can
only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		_
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both		
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to ti	_	
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sys	•	0 0 1
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, perso	onal statement, reques	t, answer
to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, w	vork based on these tex	xts.
04XFM2 French for Intermediate Students M2	Z	2
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science te	xts, features typical for	technical
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sci	= =	
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	<b>37</b> ,	
04XFM3 French for Intermediate Students M3	7	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (su	hordinate and infinitive	
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl		
ield of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative wor	•	ii ai licies
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohe		4
04XFMZK French for Intermediate Students Examination	ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents	of FM1-FM3. The exam	nination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the w		
consists of a written and oral part and is organized according to Examination Instructions, a document available on the wood VAXFP1 French for Advanced Students P1	eb.	2
	Z	_
04XFP1 French for Advanced Students P1	Z ten and oral form. Stud	dents will
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O4XFP1 French for Advanced Students P1  FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both write able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit generation.	Z ten and oral form. Studal and technical informate atted and expanded: s	dents will ation and subjonctif,
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Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping, weather, university in our country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. 04XFZ5 French for Beginners Z5 7 2 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They present it orally in the class. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. Topics: on physics from lecture notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate clauses, typical conjunctions, subjunctive clauses, gerund, passive. 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 is ruled by the document Instruction for examination. Its content covers the levels FZ1 - FZ5. 04XNM1 German for Intermediate Students M1 2 The objective of the course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and structures (e.g. the passive) and word formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Republic and Germany, current environmental issues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists, and the fundamentals of IT terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability. 04XNM2 German for Intermediate Students M2 2 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and car technology etc. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses). 04XNM3 German for Intermediate Students M3 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and car technology etc. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses). 04XNMZK German for Intermediate Students Examination 7K The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination consisting of two 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 assessment. More detailed information is to be obtained from the teacher. 04XNP1 German for Advanced Students P1 This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practical everyday communication, i.e., telephoning. 04XNP2 German for Advanced Students P2 2 The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering, Increasing emphasis is placed on understanding and practising formal communication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). 04XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The course also includes translation practice to and from German. 04XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination 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 ungraded assessment. More detailed information is to be obtained from the teacher. 04XRM1 Russian for Intermediate Students M1 The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten), basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. 04XRM2 Russian for Intermediate Students M2 7 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 timetable. 04XRM3 Russian for Intermediate Students M3 2 The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable. 04XRMZK Russian for Intermediate Students Examination ZK 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 knowledge and skills acquired in RM1 - RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions by the teacher. Russian for Advanced Students P1 7 2 The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills. 04XRP2 Russian for Advanced Students P2 Ζ 2 The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication. Russian for Advanced Students P3 The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students

develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to bot technical topics.	h speak write accurately and with confidence on
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 to	esting the knowledge and skills acquired in RP1
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Stude	ents are given instructions by the teacher.
04XRZ1 Russian for Beginners Z1	Z 2
The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts	5
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (lister	ning and speaking). Students will be able to read
a short text with marked stress, understand its contents and summarize it.	7 7
04XRZ2 Russian for Beginners Z2	Z   2
The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easable to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked st	•
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be	
04XRZ3 Russian for Beginners Z3	Z 2
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical	1 1
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken lang	
understood, and to express their opinion. Writing skills will be trained on guided writing tasks and	
04XRZ4 Russian for Beginners Z4	Z 2
The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding lo	nger texts with a certain percentage of unfamiliar
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e	.g., irregular verbs, differences in verb patterns
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, trave	elling, free time), and practice oral and written
communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geog	raphical data (e.g., Siberia), learn how to fill in
forms, look up the information from the timetable, learn about Russian holidays and typical r	
04XRZ5 Russian for Beginners Z5	Z   2
The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts	
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading	-
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skill	, , , , , , ,
	` ' ' '
04XRZZK   Russian for Beginners Examination  The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination to	ZK 3
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Stude	
04XSM1 Spanish for Intermediate Students M1	Z 2
The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary sch	' '
vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object	-
subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are train	
04XSM2 Spanish for Intermediate Students M3	Z 2
The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals	
The course develops the students. Knowledge from the previous course (OWT). Students are gradually acquainted with fundamentals	s of Spanish for specific purposes in order to be
able to work with specialized texts on the Internet.	
able to work with specialized texts on the Internet.  O4XSM3 Spanish for Intermediate Students M3	Z 2
able to work with specialized texts on the Internet.  O4XSM3 Spanish for Intermediate Students M3  The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculi	Z 2 iarities of academic style. They will be competent
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able to work with specialized texts on the Internet.  O4XSM3   Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculi enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the inform final part of the programme, general Spanish course based on course books, covers presentations and, finally, a vice of the programme, general Spanish course based on course books, covers presentations and, finally, a vice of the programme, general Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible non-graded assessment for course SM3. Oral examination follows the written part.  O4XSP1   Spanish for Advanced Students P1 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written of CEFR.  O4XSP2   Spanish for Advanced Students P2 Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more gravitten communication.  O4XSP3   Spanish for Advanced Students P3 Course SP3 is the final part of the advanced Spanish course, extending Spanish for Advanced Students P3 Course SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future spec based on what students will need in their career.  O4XSPZK   Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination SPSK consists of two parts, namely oral and written. The passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual of AXSZ2   Spanish for Beginners Z1  Course SZ1 is the first stage of the five-semester programme of Spanish studies; during the first	iarities of academic style. They will be competent ration to write short articles and summaries. The written and oral examination.    ZK
able to work with specialized texts on the Internet.  O4XSM3   Spanish for Intermediate Students M3  The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculi enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the inform final part of the programme, general Spanish course based on course books, covers presentations and, finally, a work of the programme, general Spanish course based on course books, covers presentations and, finally, a work of the course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible non-graded assessment for course SM3.0ral examination follows the written part.  O4XSP1   Spanish for Advanced Students P1  Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written correct of CEFR.  O4XSP2   Spanish for Advanced Students P2  Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more gramination of the advanced Spanish course. It is based on texts chosen by the students according to their future spectoased on what students will need in their career.  O4XSP3   Spanish for Advanced Students P3  Course SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future spectoased on what students will need in their career.  O4XSPZK   Spanish for Advanced Students Examination  The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual of SP2K consists of two parts, namely oral and written. The passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP	iarities of academic style. They will be competent ration to write short articles and summaries. The written and oral examination.    ZK

	Spanish for Paginnara 75	7	
	Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo	Z r specific purposes	2 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 The course conte	Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex passed the written examination test.	ZK amination only if h	e/she has
11BSEM	Bachelor Seminar	Z	1
	e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	_	elors dearee
projects at the face	ulty. The second part is designed as a practical training for the defence of the bachelors degree project. The students give oral presers achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possibility performance.	ntations of the curr	ent state of
11UFP	Introduction to Solid State Physics	ZK	3
_	ains the fundamentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to s		
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.		
11ZFP	Basic to Solid State Physics	ZK	3
solids, various type are derived. The p	amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding s of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in plained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to select interpret a broad phenomenological basis of physical properties of crystalline solids	c thermal propertiens solids by means	s of crystals of electron
11ZFPL	Basic to Solid State Physics	KZ	2
Description of fund	amental 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
are derived. The p	s of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in plained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s interpret a broad phenomenological basis of physical properties of crystalline solids	solids by means	of electron
12APL	Application of Lasers	Z,ZK	2
	plication of lasers in industrial technologies, medicine, remote sensing, energetics, telecommunication, military, entertainment and ot		_
12BPFI1	Bachelor Project 1	Z	5
The bachelor project	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj regular meetings and discussions.	ect supervisor duri	ng common
12BPFI2	Bachelor Project 2	Z	10
The bachelor project	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj regular meetings and discussions.	ect supervisor duri	ng common
12EPR1	Basic Electronics Practicum 1	KZ	3
The aim of the pra	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.	of the results. The	practicum
12EPR2	Basic Electronics Practicum 2		
	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.		
12LAS	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems	of the results. The Z,ZK	practicum 3
12LAS Pulsed solid state	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.	Z,ZK Optical parametric colet lasers. X-ray li	practicum  3 generators
12LAS Pulsed solid state	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems  nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi	Z,ZK Optical parametric colet lasers. X-ray li	practicum  3 generators
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. §	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Considered Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron leaser Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an app	Z,ZK pptical parametric golet lasers. X-ray lasers. Z,ZK roximation of the f	3 generators asers. High 3 undamental
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. S mode. ABCD me	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. C Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron laser Technique 1	of the results. The  Z,ZK  optical parametric optical pasers. X-ray leasers.  Z,ZK  roximation of the fin, saturation. Cohe	3 generators asers. High 3 undamental
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. S mode. ABCD me	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Considered Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultraving power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron lasers Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an appethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion	of the results. The  Z,ZK  optical parametric optical pasers. X-ray leasers.  Z,ZK  roximation of the fin, saturation. Cohe	3 generators asers. High 3 undamental
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. \$ mode. ABCD me	Laser Systems enanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Cemiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron lasers Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an appethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical Laser Technique 2	of the results. The  Z,ZK  potical parametric of the lasers. X-ray lasers.  Z,ZK  roximation of the fin, saturation. Cohe al resonator.	3 generators asers. High  3 undamental erent and
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. S mode. ABCD m r 12LTB2  12MOF Basic ie	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Cesemiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultraving power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron laser Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an applethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion ton-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical Laser Technique 2  Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking	z,zk pptical parametric golet lasers. X-ray leasers. Z,ZK roximation of the fin, saturation. Cohe al resonator. Z,ZK  ZK  ZK  ure determination.	3 generators assers. High 3 undamental erent and 3
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. S mode. ABCD me r 12LTB2  12MOF Basic ie	Laser Systems enanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Common Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron laser Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an appethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion ton-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical Laser Technique 2  Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking  Molecular Physics  deas on physics of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular struct  Microprocessor Laboratory 1	z,zk optical parametric golet lasers. X-ray leasers.  z,zk roximation of the fin, saturation. Cohe al resonator.  z,zk  zk  zk  zk  zk  zk  zk  zk  zk	3 generators assers. High  3 undamental erent and  3  2
12LAS Pulsed solid state and raman lasers.  12LTB1 Open resonators. S mode. ABCD mo r 12LTB2  12MOF Basic id 12MPP1 Become acquainte	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation consists of blocks lasting 4 hours.  Laser Systems e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. Consider the semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultraviate power continuous lasers. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron laser Technique 1  Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an appetend. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion ton-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical Laser Technique 2  Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking  Molecular Physics  deas on physics of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular struct  Microprocessor Laboratory 1  and with a development board based on PIC16F873A and PIC16F877A microcontrollers, development environment MPLAB X IDE, PR	z,zk pptical parametric golet lasers. X-ray leasers.  z,zk roximation of the fin, saturation. Coheal resonator.  z,zk  zk  zk  zk  zk  zk  zk  zk  zk	3 generators assers. High  3 undamental erent and  3  2
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			T .
12NT	Nanotechnology	ZK	2
	duce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physical ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technologi		
	paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for hetero		
	cussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric layer p		
	as well as soldering and encasement.		
120SY	Operating Systems	ZK	3
Operating systems	kernel, memory management, process, multitasking, interprocess communication, input/output, drivers, queues, client-server, internet c	communication, M	ultilanguage
10010	environment, user interface, system security, open systems.		
12PAS	Computer Algebra Systems	Z	2
Practically offenter	d introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is realized students acquire basic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.	zea in computer d	iassioonis.
12RSEN	Control Systems and Sensors	Z,ZK	4
	pesses the theory, analysis, and implementation of linear analog and digital control systems, as well as sensors for various physical qua		1
	er modeling and simulation using MATLAB, along with practical measurements conducted by the students on a continuous system with anal		
	with an electric motor) or a continuous system with discrete control (temperature control using a thermoelectric cooler module	е).	
12UFN	Introduction to Photonics and Nanostructures	KZ	3
Overview of nanost	tructures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanoplasmo	onics; optical wave	eguides and
	fibers; integrated photonics; computer simulations; technological realization; student presentations		
12ULTB	Introduction to Laser Technique	KZ	3
Overview of electr	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers; laser applifier. Oswitching, mode-locking	laser satety preca	utions. The
1211111	laser amplifier, Q-switching, mode-locking.	Z	2
12UNXAP	Introduction to UNIX pperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfac	<del>-</del>	2 software
•	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with		
	reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to		
X-windows. Con	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a co	mputer. Network	services:
	hardware sharing, mail, scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriente	d Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with sc	ome basic tools fo	rt scientific
40) /FT	and technicval computing, data analysis, data visualisation and algorithm development.		
		7 71/	
12VFT	High Frequency and Impulse Circuitry  Tree is to collect advanced knowledge in high frequency technics and high speed events. The course is focused an Maxwell equation of	Z,ZK	2
	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so	•	l
The goals of cou	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.	olution, Gunn's di	odes, high
The goals of cour	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.  Vacuum Technology	olution, Gunn's di	odes, high
The goals of courting 12VKT Rarefied gasses:	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.	KZ	odes, high  4 rption; gas
The goals of cour  12VKT Rarefied gasses: transport through s	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.  Vacuum Technology basic concepts and relations; diffusion, flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surface	KZ ce; sorption, desorperties:-Positive d	odes, high  4 rption; gas isplacement
The goals of courting 12VKT Rarefied gasses: transport through s pumps: Diaphragi	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation so frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.  Vacuum Technology  basic concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surfact olid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their program, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorptigetter pumps Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Materia	KZ ce; sorption, desorperties:-Positive di	odes, high  4 rption; gas isplacement
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	emperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, linear theory	· I	=
	ctromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and parametric instal		•
	prises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduc		p
12ZFS		ZK	2
-	basics of photonic structures, it classifies photonic structures compares them with the electronic structures, summarizes their preparation a		
	ture discusses the basic physics and technology of optical waveguides; it introduces basic linear, nonlinear, and active structures of integra		
	Il communications and sensors. Next, the attention is given to introduction of plasmonic structures and plasmonics, periodic structures and	-	
	surfaces, and finally to photonic structures for quantum technologies. Finally, the lecture is closed with student presentations on selected re	•	
motamatorialo, mota	excursions to selected photonic laboratories.	roiovaini te	price aria
12ZMDT		ZK	2
1	ne measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeties, data fitting	′ I	
basic knowledge for th	signal from the noise.	ng, separ	ation of the
12ZPLT		ΚZ	6
			_
	AG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic, He-Ne gl umped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto-optic	•	•
		1	
12ZPOP	, , , , , , , , , , , , , , , , , , ,	(Z	6
	ractical laboratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborat		
14ELM	,	<b>〈</b> Z	2
	the students are introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles. The introduct		
٠, ٠	nd electron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different types of		
mathematical formulation	ons and tools used in microscopy and to the description of particular parts of the microscopes. Introduction to kinematic and dynamic theory	ry of diffra	ction, types
mathematical formulation of contrast, and		ry of diffra	iction, types ion.
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