## Study plan

## Name of study plan: BS Fyzikální elektronika

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Applications of Natural Sciences

Type of study: Bachelor full-time

Required credits: 97

Elective courses credits: 83 Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 97

The role of the block: PO

Code of the group: BSFEPP1

Name of the group: BSFE - povinné p edm ty 1. ro ník

Requirement credits in the group: In this group you have to gain at least 24 credits

Requirement courses in the group: In this group you have to complete at least 7 courses

Credits in the group: 24 Note on the group:

00PT

Preparatory Week

. 1010 011 1110 9104	r ·					
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, Miroslav Myška Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	Z	РО
02ELMA	Electricity and Magnetism Iskender Yalcınkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.)	Z,ZK	6	4+2	L	РО
02MECH	Mechanics Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.)	Z	4	4+2	Z	РО
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David Be, Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	РО
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	РО
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	РО
18ZPRO	Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	РО

Characteristics of	the courses of this group of Study Plan: Code=BSFEPP1 Name=BSFE - povinné p edm ţ	y 1. ronik	
02DEF1	History of Physics 1	Z	2
Physics and its place in	the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural pi	nilosophers, Aristo	tle. Physics in
Helenistic period, Archi	med. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galile	o, Huygens. The b	irth of physics
as experimental science	e. Newton and his work.		
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Coulon	b's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, c	onductivity. Basics	of the relativity
theory. Electrodynamic	forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,Maxwell e	quations	
02MECH	Mechanics	Z	4
ntroduction to physics,	hysical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimen	sional equations o	f motion, motion
in central force field, for	ces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bo	dy, rotation. Funda	amentals of
continuum mechanics,	elasticity, hydrodynamics. Sound.		
02MECHZ	Mechanics - Examination	ZK	2
The content of the subj	ct is the examination according to the plan of studies.		

Ζ

2

D2TER Heat and Molecular Physics

7.7K

4

Thermal expansion of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic principle, ideal and real gas, entropy; non-chemical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity distribution, equipartition theorem.

18ZPRO Basics of Programming

Ζ

10011 trieoreiri

This course is intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming and with the Python programming language.

Code of the group: BSFEPP2

Name of the group: BSFE - povinné p edm ty 2. ro ník

Requirement credits in the group: In this group you have to gain at least 18 credits

Requirement courses in the group: In this group you have to complete at least 4 courses

Credits in the group: 18 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
02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	РО
02TEF2	Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	٦	РО
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	РО
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PO

Characteristics of the courses of this group of Study Plan: Code=BSFEPP2 Name=BSFE - povinné p edm ty 2. ro ník

02TEF1 | Theoretical Physics 1 | Z,ZK | 4 | The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism as well as diferent approaches to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2).

D2TEF2 Theoretical Physics 2

ZK

4

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

Z,ZK

4

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

Z,ZK

6

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

Code of the group: BSFEPP3

Name of the group: BSFE - povinné p edm ty 3. ro ník

Requirement credits in the group: In this group you have to gain at least 55 credits

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

Credits in the group: 55 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
12BPFE1	Bachelor Thesis 1 Radka Mika Havlíková	Z	5	0+5	Z,L	РО
12BPFE2	Bachelor Thesis 2 Radka Mika Havlíková	Z	10	0+10	L,Z	РО
02KVAN	Quantum Mechanics Martin Štefa ák Martin Štefa ák (Gar.)	Z,ZK	6	4+2	Z	РО
12NT	Nanotechnology Eduard Hulicius, Jan Proška Jan Proška Eduard Hulicius (Gar.)	ZK	2	2+0	Z	РО
12OPEL	Optoelectronics Ji í tyroký <b>Ji í tyroký</b> Ji í tyroký (Gar.)	Z,ZK	2	2	L	РО
01RMF	The Equations of Mathematical Physics  Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	6	4+2	Z	РО

12ULAT	Introduction to Laser Technique Helena Jelínková, Jan Šulc Helena Jelínková Helena Jelínková (Gar.)	KZ	2	1+1	Z	PO
12VAK	Vacuum Physics and Technology Richard Švejkar Richard Švejkar (Gar.)	KZ	4	2+2	Z	РО
12ZPLT	Basic Laser Technique Laboratory Václav Kube ek, Josef Blažej Josef Blažej Václav Kube ek (Gar.)	KZ	6	0+4	L	РО
12ZPOP	Basic Optical Laboratory Alexandr Jan árek Alexandr Jan árek (Gar.)	KZ	6	0+4	L	PO
12ZELD	Fundamentals of Electrodynamics Milan Ši or Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PO
12ZAOP	Fundamentals of Optics Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PO

Characteristics of the courses of this group of Study Plan: Code=BSFEP3 Name=BSFE - povinné p edm ty 3. ro ník

12BPFE1	Bachelor Thesis 1	Z	5
Student works on	the given topic according to the bachelor work submission for a period of 2 semesters.		
12BPFE2	Bachelor Thesis 2	Z	10
Student works on	the given topic according to the bachelor work submission for a period of 2 semesters.		
02KVAN	Quantum Mechanics	Z,ZK	6
The lecture descri	bes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as well	as its time evolution	n. Besides that it
includes description	on of observable quantities by operators in the Hilbert space and calculation of their spectra.		
12NT	Nanotechnology	ZK	2
Lectures will introd	duce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Pt	nys <sup>i</sup> cal and chemical	fundaments of
different technolog	gies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial techr	nologies which are s	ubstantial for
nanostructure pre	paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for	heterostructure and	d nanostructure
growths will be dis	scussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric	layer preparation w	ill be mentioned
as well as soldering	ng and encasement.		
12OPEL	Optoelectronics	Z,ZK	2
Physics and techn	ology of optical fibre and p[lanar waveguides, fibre amplifiers and lasers. Photonic integration. Photonic crystals and plasmonics. A	Applications in optical	l communicatio
and sensors.			
01RMF	The Equations of Mathematical Physics	Z,ZK	6
The subject of this	s course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of inte	egral transformations	s, and solution o
partial differential	equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
12ULAT	Introduction to Laser Technique	KZ	2
Overview of electr	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of la	asers; laser safety pr	recautions. The
laser amplifier, Q-	switching, mode-locking.		
12VAK	Vacuum Physics and Technology	KZ	4
Rarefied gasses: I	pasic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporati	on, condensation; ga	as transport
through solid matt	er; Vacuum generation. Pumping process. Pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumpir	ng speed; gas flow, o	conductivity,
searching for leak	s. Materials and vacuum instalation parts. Practical exercises.		
12ZPLT	Basic Laser Technique Laboratory	KZ	6
Lasers, solid state	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second har	monic, He-Ne glow	discharges, lase
diode, diode pump	oed Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acoust	o-optic modulators.	
12ZPOP	Basic Optical Laboratory	KZ	6
The practical labo	ratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborate	d.	
12ZELD	Fundamentals of Electrodynamics	Z,ZK	2
Subject starts by	derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory	of relativity formulae	are found for
transformation of f	ield vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By	expansion into plane	e monochromati
waves methods of	solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with	absoption, with disp	ersion, and
non-isotropic. Fina	ally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by	appropriate example	es.
12ZAOP	Fundamentals of Optics	Z,ZK	2
The lecture covers	s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and g	eometrical optics. Th	ne main goal of
the lecture is to ob	otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with r	espect to character	of the bachelor
work. Particular to	pics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane wa	ves in vacuum (inclu	ding polarization
effects), and further	er from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It ne	xt informs on conse	auences in

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 0

The role of the block: PV

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

approach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instruments.

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

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

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 <b>Jana Ková ová</b>	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		PV
00UPSY	Introduction to Psychology Jakub Haii ek Jana Ková ová	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 course introduces the basics of micro- and macroeconomics.						
00ETV	Ethics of Science and Technology	Z	1				
00RET	Rhetoric	Z	1				
The course is focused of	in the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	ne composition of	public speech				
as well as to its nonverb	al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	integral part of the	ne course.				
00UPRA	Introduction to Law	Z	1				
00UPSY	Introduction to Psychology	Z	1				

Code of the group: BSMALA

Name of the group: BS - analýza a algebra

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 10 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
01DIFR	Differential Equations  Michal Beneš Michal Beneš Michal Beneš (Gar.)	Z,ZK	4	2P+2C	L	PV
01LALA	Linear Algebra A 1, Examination Petr Ambrož	ZK	5	-		PV
01LAA2	Linear Algebra A2 Lubomíra Dvo áková	Z,ZK	6	2+2	L	PV
01LALB	Linear Algebra B 1, Examination  Lubomíra Dvo áková	ZK	3	-		PV
01LAB2	Linear Algebra B2 Petr Ambrož	Z,ZK	4	1+2	L	PV
01LAP	Linear Algebra Plus Lubomíra Dvo áková	Z,ZK	5	1+1	Z	PV
01LA1	Linear Algebra 1 Lubomíra Dvo áková	Z	1	2+1	Z	PV
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		PV
01LNA1	Linear Algebra 1 Lubomíra Dvo áková	Z	2	2+2		PV
01LAZ	Linear Algebra 1, Examination  Lubomíra Dvo áková	ZK	2	-	Z	PV
01MANA	Calculus A 1, Examination Severin Pošta	ZK	6	-		PV
01MAA2	Calculus A2 Edita Pelantová	Z,ZK	10	4+4	L	PV
01MAA3	Calculus A3 František Štampach	Z,ZK	10	4+4	Z	PV
01MAA4	Calculus A4 František Štampach František Štampach (Gar.)	Z,ZK	10	4+4	L	PV
01MANB	Calculus B 1, Examination Severin Pošta	ZK	4	-		PV
01MAB2	Calculus B2 Severin Pošta	Z,ZK	7	2+4	L	PV
01MAB3	Calculus B3 Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	7	2+4	Z	PV

01MAB4	Calculus B4 Milan Krbálek, Ji í Mikyška, Miroslav Kolá <b>Milan Krbálek</b> Milan Krbálek (Gar.)	Z,ZK	7	2+4	L	PV
01MAP	Calculus Plus Mat j Tušek	ZK	6	0	Z	PV
01MA1	Calculus 1  Mat j Tušek	Z	4	4+4	Z	PV
01MAN	Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.)	Z	4	4+4		PV
01MAZ	Calculus 1, Examination  Mat j Tušek	ZK	4	-	Z	PV
01NUM1	Numerical Mathematics 1	Z,ZK	4	3+1	Z	PV
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	PV
01VYMA	Selected Topics in Mathematics Ji í Mikyška Ji í Mikyška Ji í Mikyška (Gar.)	Z,ZK	4	2+2	L	PV

Characteristics of the courses of this group of Study Plan: Code=BSMALA Name=BS - analýza a algebra 01DIFR **Differential Equations** Z,ZK 4 The course contains introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the existence theory, solution of linear types of equations and introduction in the theory of boundary-value problems. 01LALA Linear Algebra A 1, Examination ZK 5 01LAA2 Linear Algebra A2 Z,ZK 6 The subject is devoted to the theory of linear operators on vector spaces (mainly equipped with scalar product). In the same time we introduce the corresponding matrix theory. 01LALB Linear Algebra B 1, Examination ΖK 3 Z,ZK01LAB2 Linear Algebra B2 4 The subject summarizes the most important notions and theorems related to the matrix theory, to the study of vector spaces with a scalar product and to the linear geometry. 01LAP Linear Algebra Plus Z,ZK 5 The subject summarizes the most important notions and theorems related to the study of vector spaces. Z 01LA1 Linear Algebra 1 1 The subject summarizes the most important notions and theorems related to the study of vector spaces Z 01LAL 2 Linear Algebra 1 1. Vector space. 2. Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear mappings. 7. Frobenius theorem. 01LNA1 Linear Algebra 1 Ζ 2 The subject summarizes the most important notions and theorems related to the study of vector spaces. Linear Algebra 1, Examination ΖK 2 01LAZ The content of this subject is the exam in Linear Algebra 1. 01MANA Calculus A 1, Examination ZK 6 Examination of knowledge about stuff lectured in the 01MAN course. 01MAA2 Calculus A2 Z,ZK 10 The subject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the number series and the power series. 01MAA3 Calculus A3 Z,ZK 10 Function sequences and series, foundation of topology, and differential calculus of several variables. 01MAA4 Calculus A4 Z,ZK 10 Integration of functions of several variables, measure theory, foundation of differential and integral calculus on manifolds and complex analysis. 01MANB Calculus B 1, Examination ZK 4 Examination of knowledge about stuff lectured in the 01MAN course. 01MAB2 Z,ZK Calculus B2 Basic calculus (real analysis, indefinite and definite integrals and series). 01MAB3 Calculus B3 Z,ZK The course is devoted to functional sequences and series, theory of ordinary differential equations, theory of quadratic forms and surfaces, and general theory of metric spaces, normed and prehilbert?s spaces. Z,ZK 7 01MAB4 Calculus B4 The course is devoted properties of functions of several variables, differential and integral calculus. Furthermore, the measure theory and theory of Lebesgue integral is studied. 01MAP Calculus Plus ZK 6 01MA1 Calculus 1 Ζ 4 Basic course of real analysis (functions of one real variable, differential calculus). 01MAN Ζ 4 Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus). 01MAZ Calculus 1, Examination ZK 4 01NUM1 Z,ZK 4 Numerical Mathematics 1 The course introduces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good understanding of the root of theoretical methods. 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. Selected Topics in Mathematics Fourier series: complete orthogonal systems, expansion of functions into Fourier series, trigonometric Fourier series and their convergence. Complex analysis: derivative of holomorphic functions, integral, Cauchy's theorem, Cauchy's integral formula, singularities, Laurent series, residue theorem.

Code of the group: BSJAZYKY Name of the group: BS - 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
04AMZK	English for Intermediate Students Examination  Jana Ková ová, Slav na Brownová, Hana ápová <b>Jana Ková ová</b> Hana ápová (Gar.)	ZK	4		Z	PV
04APZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland	ZK	5		Z	PV
04CESMZK	Czech for Intermediate Students Examination  Jana Ková ová Jana Ková ová	ZK	4		Z	PV
04CESPZK	Czech for Foreign Students - Advanced Examination  Jana Ková ová	ZK	5		Z	PV
04FMZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04FPZK	French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.)	ZK	5		Z	PV
04FZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04NMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04NPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	5		Z	PV
04RMZK	Russian for Intermediate Students Examination Zhanna Isaeva Jana Ková ová Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04RPZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	5		Z	PV
04RZZK	Russian for Beginners Examination Zhanna Isaeva Miloslava echová Zhanna Isaeva (Gar.)	ZK	3		L	PV
04SMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04SPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	5		Z	PV
04SZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

	(Gar.)				
Characteristics	s of the courses of this group of Study Plan: Code=BSJAZYKY Name=BS	- languag	ges		
04AMZK	English for Intermediate Students Examination			ZK	4
The course content	is the examination as given by the study plan. The examination covers the 04AM1, 04AM2, and 04AM	M3 courses a	and consis	ts of two parts - wri	tten (100 min) and
oral (20-30 min). Th	ne student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge	e gained in th	ne three En	glish courses.	
04APZK	English for Advanced Students Examination			ZK	5
The course content	is the examination as given by the study plan. The student is supposed to demonstrate mastering the	e 04AP3 syll	abus and t	he ability to apply t	heir knowledge
obtained in the thre	e 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and include	es also oral p	presentatio	n of a topic from th	e student's field of
study.					
04CESMZK	Czech for Intermediate Students Examination			ZK	4
The course content	is the examination as given by the study plan. The examination consisting of a written and oral part co	overs all the	topics of th	ne 04CESM1,2,3 co	ourses and can only
be taken after succe	essful completion of the 3 courses. Detailed information is to be obtained from the teacher.				
04CESPZK	Czech for Foreign Students - Advanced Examination			ZK	5
The course content	is the examination as given by the study plan. The examination consisting of a written and oral part co	overs all the	topics of the	he 04CESP1,2,3 co	ourses and can only
be taken after succe	essful completion of the 3 courses. Detailed information is to be obtained from the teacher.				
04FMZK	French for Intermediate Students Examination			ZK	4
The content is the e	examination as given by the study programme. The whole French programme is ended with an examin	nation coveri	ing the con	tents of FM1-FM3.	The examination
consists of a writter	n and oral part and is organized according to Examination Instructions, a document available on the w	veb.			
04FPZK	French for Intermediate Students Examination			ZK	5
The whole French p	program is ended with an examination covering the contents of FP1-FP3. The examination consists of	f a written an	nd/or an ora	al part and is organ	ized according to
Examination Instruc	ctions, a document available on the web. Assessment of the presentation is included into the examination	tion grading			
04FZZK	French for Beginners Examination			ZK	3
The content is the e	examination as given by the study plan. The course is terminated with an examination consisting of ora	al and writte	n part. The	examination is rule	ed by the document
Instruction for exam	nination. Its content covers the levels FZ1 - FZ5.				
04NMZK	German for Intermediate Students Examination			ZK	4
The course content	is the examination as given by the study plan. The whole German for Intermediate Students Course is	completed I	by an exam	nination consisting	of two parts - written
and oral, which cove	er the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after	er obtaining t	he 04NM3	assessment. More	detailed information
is to be obtained from	om the teacher.				

04NPZK	German for Advanced Students Examination	ZK	5
The course content	is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examin	ation consisting of tw	o parts - written
and oral, which cove	er the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3	ungraded assessme	nt. More detailed
information is to be	obtained from the teacher.		
04RMZK	Russian for Intermediate Students Examination	ZK	4
	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the ki eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instr	•	•
04RPZK	Russian for Intermediate Students Examination	ZK	5
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 k	nowledge and skills a	acquired in RP1
- RP3. Students are	eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru	uctions by the teache	er.
04RZZK	Russian for Beginners Examination	ZK	3
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the ki	nowledge and skills a	acquired in RZ1
- RZ5. Students are	eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru	actions by the teache	∍r.
04SMZK	Spanish for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for	he written part, stud	ents will have
obtained non-graded	d assessment for course 04SM3.Oral examination follows the written part.		
04SPZK	Spanish for Advanced Students Examination	ZK	5
The course content	is the examination as given by the study plan. Examination 04SPZK consists of two parts, namely oral and written. The prere	quisite for admission	to oral part is
having passed the w	vritten test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the stude	nt.	
040771/	Charles for Deginners Evamination	ZK	2
04SZZK	Spanish for Beginners Examination	ZN	3

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

The role of the block: V

passed the written examination test.

Code of the group: BSVOLPREDM

Name of the group: BS - volitelné p edm ty

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

Credits in the group: 0 Note on the group:

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
12AUX	Administration of UNIX System  Milan Ši or Milan Ši or Milan Ši or (Gar.)	KZ	2	2+0	L	V
01ALG	Algebra Pavel Š oví ek	ZK	4	4+0	Z	V
01ALGE	Algebra Zuzana Masáková <b>Zuzana Masáková</b> Zuzana Masáková (Gar.)	Z,ZK	6	4+1		V
11ANEL	Linear Circuit Analysis Pavel Jiroušek Pavel Jiroušek (Gar.)	Z,ZK	4	4	Z	V
15CHEM	Analytical Calculations and Chemometry Principals  Ji í Zima Ji í Zima Ji í Zima (Gar.)	ZK	2	2+0	Z	V
04ABZK	English - State Examination  Jana Ková ová	ZK	5	2	L	V
04AM1	English for Intermediate Students M1  Jana Ková ová	Z	1	0+2	Z	V
04AM2	English for Intermediate Students M2  Jana Ková ová	Z	1	0+2	L	V
04AM3	English for Intermediate Students M3  Jana Ková ová Hana ápová (Gar.)	Z	1	0+2	Z	V
04AP1	English for Advanced Students P1	Z	1	0+2	Z	V
04AP2	English for Advanced Students P2	Z	1	0+2	L	V
04AP3	English for Advanced Students P3	Z	1	0+2	Z	V
16APLB	Application of lonizing Radiation in Analytical Methods Tomáš echák	ZK	5	4+0	L	V
12APL	Application of Lasers Helena Jelínková, Alexandr Jan árek Helena Jelínková Helena Jelínková (Gar.)	Z,ZK	2	2+0	Z	V
11APLG	Applications of Group Theory in Solid State Physics  Zden k Pot ek Zden k Pot ek Zden k Pot ek (Gar.)	ZK	2	2	Z	V
02AMS	Atomic and Molecular Spectroscopy Svatopluk Civiš Svatopluk Civiš (Gar.)	Z,ZK	4	2+2	Z	V
04CESM1	Czech for foreigners - Intermediate  Jana Ková ová	Z	1	0+2	Z	V

04CESM2	Intermediate Czech 2 Jana Ková ová	Z	1	0+2	L	V
04CESM3	Intermediate Czech 3 Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	Z	V
04CESP1	Czech for Foreign Students - Advanced Examination  Jana Ková ová	Z	1	0+2	Z	V
04CESP2	Czech for Foreigners - Advanced  Jana Ková ová	Z	1	0+2	L	V
04CESP3	Czech for Foreigners - Advanced  Jana Ková ová	Z	1	0+2	Z	V
15DALCH	History of Alchemy and Chemistry	ZK	2	2+0		V
02DEF1	Vladimír Karpenko Vladimír Karpenko Vladimír Karpenko (Gar.)  History of Physics 1	Z	2	2+0	Z	V
02DEF2	Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.)  History of Physics 2	 	2	2+0	 L	V
	Igor Jex Miroslav Myška Igor Jex (Gar.)  History of Mathematics					-
01DEM	Lubomíra Dvo áková <b>Lubomíra Dvo áková</b> Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
02DRG	Differential Equations, Symmetries and Groups Libor Šnobl Martin Štefa ák Libor Šnobl (Gar.)	Z	4	2+2	Z	V
01DIM1	Discrete Mathematics 1 Lubomíra Dvo áková, Edita Pelantová, Zuzana Masáková Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	Z	V
01DIM2	Discrete Mathematics 2  Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.)  Car.)	Z	2	2P+0C	L	V
01DIM3	Discrete Mathematics 3 Lubomíra Dvo áková	Z	2	2+0	Z	٧
00EKOT	Economy in Technology  Jana Ková ová	Z	1	2+0		V
11ELEA	Instrumentation and Measurement Pavel Jiroušek Pavel Jiroušek (Gar.)	Z,ZK	2	2	L	V
14ELMI	Electron Microscopy	Z,ZK	3	2+0		V
18ESPG1	European Computer Driving Licence 1	Z	2	0+2	Z	V
18ESPG2	European Computer Driving Licence 2	Z	2	0+2	L	V
16EPAM	Exact Methods in Research of Historic Monuments  Ladislav Musílek Ladislav Musílek Ladislav Musílek (Gar.)	ZK	2	2+0	Z	V
02EXF1	Experimental Physics 1 Jan epila	Z	2	2+0	L	V
02EXF2	Experimental Physics 2	ZK	2	2+0	Z	V
17ENF	Experimental Neutron Physics Jan Rataj	KZ	2	2+1	L	V
04FM1	French for Intermediate Students M1	Z	1	0+2	Z	V
04FM2	French for Intermediate Students M2	Z	1	0+2	L	٧
04FM3	French for Intermediate Students M3  V ra Šlechtová (Gar.)	Z	1	0+2	Z	V
04FP1	French for Advanced Students P1  Michal Beneš	Z	1	0+2	Z	V
04FP2	French for Advanced Students P2	Z	1	0+2	L	V
04FP3	V ra Šlechtová French for Advanded Students P3	Z	1	0+2	Z	V
04FZ1	V ra Šlechtová (Gar.)  French for Beginners Z1 V ra Šlechtová	Z	1	0+4	L	V
04FZ2	V ra Slechtová French for Beginners Z2	 	1	0+4	 Z	V
04FZ3	Michal Beneš French for Beginners Z3	Z	1	0+4	L	V
	V ra Šlechtová French for Beginners Z4		-			-
04FZ4	V ra Šlechtová (Gar.)  French for Beginners Z5	Z 	1	0+4	Z	V
04FZ5	V ra Šlechtová V ra Šlechtová (Gar.)	Z	1	0+4	L	V
01FKP	Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.)	ZK	2	2+0	Z	V
01FKPB	Functions of Complex Variable B Pavel Š oví ek	Z	2	2+0	Z	V
01FAN1	Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	4	2+2		V
01FA1	Functional Analysis 1 Pavel Š oví ek	Z,ZK	3	2+1	Z	V
	Functional Analysis 2	Z,ZK				

	Experimental Laboratory 1					
02PRA1	Libor Škoda, Katarína K ížková Gajdošová, Barbara Antonina Trzeciak, Jaroslav Biel ík <b>Jaroslav Biel ík</b> Jaroslav Biel ík (Gar.)	KZ	6	0+4	Z	V
02PRA2	Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	V
02FYS1	Physical Seminar 1  Martin Štefa ák Vojt ch Svoboda (Gar.)	Z	2	0+2	Z	V
02FYS2	Physical Seminar 2  Jan epila	Z	2	0+2	L	V
01GTDR	Geometric Theory of Ordinary Differential Equations  Michal Beneš Michal Beneš (Gar.)	Z	2	0+2	Z	V
12INS1	Information Systems 1	Z,ZK	2	2	Z	V
12INS2	Information Systems 2  Antonín Novotný	Z,ZK	2	2	L	V
16ZJTB	Nuclear Energy Facilities and Accelerators  Kamil Augsten, Tomáš echák Kamil Augsten Tomáš echák (Gar.)	ZK	2	2+0	Z	V
17JARE	Nuclear Reactors Tomáš Bílý Tomáš Bílý Tomáš Bílý (Gar.)	ZK	2	2	L	V
01JEPR	Simple Compilers Zden k ulík Zden k ulík (Gar.)	Z	2	2	L	V
16KPR	Clinical Propaedeutic Jana Votrubová Jana Votrubová (Gar.)	ZK	2	2+0	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	٧
02KF	Quantum Physics Filip Petrásek Martin Štefa ák Libor Šnobl (Gar.)	Z,ZK	3	2P+1C	Z	V
02LCF1	Experimental Laboratory 1  Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	0+2	Z	V
02LCF2	Experimental Laboratory 2  Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	0+2	L	V
12LT1	Laser Technique 1  Václav Kube ek Václav Kube ek Václav Kube ek (Gar.)	Z,ZK	3	2+1	Z	V
12LT2	Laser Technique 2 Helena Jelinková	Z,ZK	2	2+0	L	V
12LAS	Laser Systems Václav Kube ek Václav Kube ek Václav Kube ek (Gar.)	Z,ZK	3	2+1	L	V
01LIP	Linear Programming Jan Volec estmír Burdík Jan Volec (Gar.)	Z,ZK	3	2+1	Z	٧
18MAK1	Macroeconomics 1 Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	L	V
18MAK2	Macroeconomics 2 Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	Z	V
01MAPR	Markov processes Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	4	2+2		V
18EKO1	Mathematical Economics 1	Z,ZK	5	2+2	Z	V
18EKO2	Mathematical Economics 2	Z,ZK	5	2+2	L	V
01MASC	Mathematical Statistics - Seminar Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z	2	0+2		٧
00MAM1	Essentials of High School Course 1  David Be Martin Stefa ák	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2  Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
01MMPV	Mathematical Models of Groundwater Flow Ji í Mikyška Ji í Mikyška Ji í Mikyška (Gar.)	KZ	2	2+0	L	V
01MMF	Methods of Mathematical Physics Pavel S oví ek	Z,ZK	6	4+2	L	V
18MIK1	Microeconomics 1 Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	5	2P+2C	Z	V
18MIK2	Microeconomics 2 Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	5	2P+2C	L	V
11MIK	Logical Circuits and Microprocessors  Pavel Jiroušek, Petr Levinský Pavel Jiroušek Pavel Jiroušek (Gar.)	Z,ZK	4	4	L	V
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 Jan Proška (Gar.)	ZK	2	2+0	L	V
12NT	Nanotechnology Eduard Hulicius, Jan Proška Jan Proška Eduard Hulicius (Gar.)	ZK	2	2+0	Z	V
02NSAD	Simulations and Data Analysis Tools  Jan epila	Z	2	2+0		V
04NM1	German for Intermediate Students M1	Z	1	0+2	Z	V

04NM2	German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.)	Z	1	0+2	L	V
04NM3	German for Intermediate Students M2  Miloslava echová Miloslava echová (Gar.)	Z	1	0+2	Z	V
04NP1	German for Advanced Students P1	Z	1	0+2	Z	V
04NP2	German for Advanced Students P2 Miloslava echová	Z	1	0+2	L	V
04NP3	German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.)	Z	1	0+2	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	V
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
02OR	General Relativity Old ich Semerák Boris Tomášik Boris Tomášik (Gar.)	ZK	3	3+0	L	V
01POPJ1	Computers and Natural Language 1	Z	2	0+2	Z	V
01POPJ2	Computers and Natural Language 2	Z	2	0+2	L	V
12POAL	Computer Algebra Richard Liska Richard Liska (Gar.)	KZ	2	2	Z	V
01POGR1	Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.)	Z	2	2	Z	V
01POGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.)	Z	2	2	L	V
01SITE1	Computer Networks 1 Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	Z	V
01SITE2	Computer Networks 2  Miroslav Minárik Miroslav Minárik (Gar.)	Z	2	1+1	L	V
01POPR	Advanced Probability Tomáš Hobza	Z	2	2+0		V
12PIN1	Practical Informatics for Technics 1 Richard Liska, Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1+1	L	V
12PIN2	Practical Informatics for Technics 2  Milan Ši or Milan Ši or (Gar.)	Z	2	1+1	Z	V
12PIN3	Practical Informatics for Technics 3  Milan Ši or Milan Ši or (Gar.)	Z	2	1+1	L	V
15INPR	Laboratory Practice in Instrumental Methods	KZ	4	0+4	L	V
01PRA1	Probability and Mathematical Statistics 1	Z,ZK	6	4+2	Z	V
01PRA2	Probability and Mathematical Statistics 2  Václav K s	ZK	2	2+0	L	V
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	V
01PRSTB	Probability and Statistics B Tomáš Hobza Tomáš Hobza (Gar.)	KZ	4	3+1	Z	V
16UAZB	Principles of Ionizing-Radiation Applications  Ladislav Musílek Kamil Augsten Ladislav Musílek (Gar.)	ZK	2	2+0	Z	V
16FNZB	Problems of Non-ionizing Radiation	ZK	2	2+0	Z	V
12PSEM	Problem Seminary	Z	2	0+4	L	V
01PERI	Programming of Peripherals Devices  Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	٧
01PW	Windows Programming Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	V
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	KZ	4	2+2	L	V
18PJ	Programming in Java Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	V
18MTL	Programming in MATLAB	Z,ZK	5	2+2	Z	V
18MPT	Programming in MATLAB	KZ	5	0+4	Z	V
18PAS	Pascal Programming Miroslav Virius	Z	4	2+2	L	V
12PDR1	Data Communication and Interfaces 1	Z	2	2+0	Z	V
12PDR2	Data Communication and Interfaces 2  Josef Blažej	Z	2	2+0	L	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
00RET	Rhetoric  Jana Ková ová Jana Ková ová	Z	1	0+2		V

01RMF	The Equations of Mathematical Physics  Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	6	4+2	Z	V
02RQGP1	Seminar on Quark-Gluon Plasma 1  Jaroslav Biel ik	Z	1	2+0		V
02RQGP2	Seminar on Quark-Gluon Plasma 2  Jaroslav Biel ik	Z	1	2+0		V
04RM1	Russian for Intermediate Students M1 Michal Beneš	Z	1	0+2	Z	V
04RM2	Russian for Intermediate Students M2 Miloslava echová	Z	1	0+2	L	V
04RM3	Russian for Intermediate Students M3 Zhanna Isaeva (Gar.)	Z	1	0+2	Z	V
04RP1	Russian for Advanced Students P1  Michal Beneš	Z	1	0+2	Z	V
04RP2	Russian for Advanced Students P2 Miloslava echová	Z	1	0+2	L	V
04RP3	Russian for Advanced Students P3 Zhanna Isaeva (Gar.)	Z	1	0+2	Z	V
04RZ1	Russian for Beginners Z1  Miloslava echová	Z	1	0+4	L	V
04RZ2	Russian for Beginners Z2  Michal Beneš	Z	1	0+4	Z	V
04RZ3	Russian for Beginners Z3  Miloslava echová	Z	1	0+4	L	V
04RZ4	Russian for Beginners Z4	Z	1	0+4	Z	V
04RZ5	Zhanna Isaeva (Gar.)  Russian for Beginners Z5	Z	1	0+4	L	V
01RSWP	Zhanna Isaeva Žhanna Isaeva (Gar.)  Project Management of Software Projects	KZ	2	0+2	Z	V
02SMF	Seminar of Mathematical Physics	Z	2	0+2	Z	V
01SSM1	Martin Štefa ák Ladislav Hlavaťý (Gar.)  Seminar of Contemporary Mathematics 1	Z	2	0+2	Z	V
01SSM2	Mat j Tušek Edita Pelantová (Gar.)  Seminar of Contemporary Mathematics 2	Z	2	0+2	L	V
16SED1	Václav Klika  Dosimetry Seminar 1	Z	2	0+2		V
16SED2	Kate ina Pila ová Kate ina Pila ová (Gar.)  Dosimetry Seminar 2	Z	2	0+2		V
01SMB1	Kate ina Pila ová Seminar on Calculus B1	Z	2	0+2	Z	V
01SMB2	Milan Krbálek Seminar on Calculus B2	Z	2	0+2	L	V
01SOS1	Milan Krbálek  Software Seminar 1	Z	2	0+2	Z	V
01SOS2	Zden k ulík <b>Zden k ulík</b> Zden k ulík (Gar.)  Software Seminar 2	Z	2	0+2	L	V
02SPRA1	Zden k ulík <b>Zden k ulík</b> Zden k ulík (Gar.)  Special Practicum 1	KZ	6	0+4	Z	V
02SPRA2	Lukáš Novotný, Jan epila <b>Jan epila</b> Jan epila (Gar.)  Special Practicum 2	KZ	6	0+4	L	V
01STR	Jan epila Jan epila Jan epila (Gar.)  Statistical Decision Theory	ZK	2	2+0	L	V
11SFBM	Václav K s Václav K s Václav K s (Gar.)  Structure and Function of Biomolecules	Z,ZK	3	2+1	Z	V
04SM1	Petr Kolenko, Tomáš Kova Petr Kolenko Petr Kolenko (Gar.)  Spanish for Intermediate Students M1	Z	1	0+2	Z	V
04SM2	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2	L	V
04SM3	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2	Z	V
04SP1	Spanish for Advanced Students P1	Z	1	0+2	Z	V
04SP2	Spanish for Advanced Students P2	Z	1	0+2	L	V
04SP3	Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2	Z	V
04SZ1	Spanish for Beginners Z1	Z	1	0+4	L	V
04SZ2	Spanish for Beginners Students Z2	Z	1	0+4	Z	V
04SZ3	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+4	L	V
04SZ4	Spanish for Beginners Z3 Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+4	Z	V
04SZ5	Spanish for Beginners Z5  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+4	L	V

14TM	Engineering Mechanics Ji í Kunz, Aleš Materna <b>Ji í Kunz</b> Ji í Kunz (Gar.)	Z,ZK	4	2+2	3	V
14TEM	Engineering Mechanics Ji í Kunz Ji í Kunz (Gar.)	Z,ZK	6	4	5	V
12TAIS	Ion Beam Techniques and Applications.	ZK	3	3+0	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	V
02TEF2	Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	V
01DYSY	Theory of Dynamic Systems Branislav Rehák Branislav Rehák (Gar.)	ZK	3	3+0	L	V
01TKO	Theory of Codes Edita Pelantová, Jan Volec Edita Pelantová Jan Volec (Gar.)	ZK	2	2P+0C	L	V
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	V
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	V
01TOP	Topology estmír Burdík estmír Burdík (Gar.)	ZK	2	2+0	Z	V
16MCRB	Transport of Ionizing Radiation and Monte Carlo Method	Z,ZK	4	2+2	L	V
18INTA	Development of internet applications  Jakub Klinkovský, Dana Majerová Dana Majerová (Gar.)	KZ	4	2P+2C	L	V
01DYK	Introduction to Continuum Dynamics Pavel Strachota	Z	2	0+2		V
16ZIVB	Introduction to Ecology Hana Pr šová Hana Pr šová (Gar.)	KZ	2	2+0	Z	V
02UFEC	Introduction to Elementary Particle Physics Jaroslav Biel ik, Marek Matas Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	2+0	Z	V
11UFPLN	Introduction to Solid State Physics Petr Kolenko, Ivo Kraus Petr Kolenko Ivo Kraus (Gar.)	ZK	2	2+0	L	V
17UINZ	Introduction to Engineering	Z,ZK	3	2+1	Z	V
02UKP	Introduction to Curves and Surfaces  Jan epila	Z	2	1+1	L	V
12ULT	Introduction to Laser Technique	Z,ZK	3	2+1	Z	V
12UMF	Introduction to Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.)	Z	3	2+1	L	V
18UOA	Introduction into Object Oriented Architecture Rudolf Pecinovský Rudolf Pecinovský	Z,ZK	4	2P+2C	Z	V
00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2		V
00UPSY	Introduction to Psychology  Jakub Haji ek Jana Ková ová	Z	1	0+2		V
01UTIZ	Introduction to Theoretical Informatics Petr Ambrož	ZK	2	2+0		V
11UVOD	Introduction to Specialization	Z	2	0+2	Z	V
12VAK	Vacuum Physics and Technology Richard Švejkar Richard Švejkar (Gar.)	KZ	4	2+2	Z	V
12PYTH	Scientific Programming in Python Pavel Váchal, Jakub Urban Pavel Váchal Pavel Váchal (Gar.)	Z	2	0+2	L	V
12VTV	Scientific and Technical Computing  Ivan Procházka Ivan Procházka Ivan Procházka (Gar.)	Z	2	1+1	L	V
12VFT	High Frequency and Impulse Circuitry  Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	2	2+0	L	V
17VYR	Research Reactors	ZK	2	2	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	V
12ZPLT	Basic Laser Technique Laboratory Václav Kube ek, Josef Blažej Josef Blažej Václav Kube ek (Gar.)	KZ	6	0+4	L	V
12ZPOP	Basic Optical Laboratory Alexandr Jan árek Alexandr Jan árek (Gar.)	KZ	6	0+4	L	V
18ZALG	Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
16AMMB	Fundamentals of Analytical Measurement Methods Hana Pr šová Hana Pr šová (Gar.)	ZK	2	2+0	L	V

16ZBAF1	1 Alena Doubková, Šimon Vaculín, Zde ka Polívková, Josef Stingl <b>Alena Doubková</b> Alena Doubková (Gar.)	Z,ZK	4	2+2	Z	V
	Fundamentals of Human Biology, Anatomy and Physiology					
16ZBAF2	2 Alena Doubková, Šimon Vaculín, Josef Stingl <b>Alena Doubková</b> Alena Doubková (Gar.)	Z,ZK	4	2+2	L	V
16ZDOZ1	Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2+2		V
16ZDOZ2	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek (Gar.)	ZK	2	2+0	L	V
17ZEH	Basics of Economic Assessment	ZK	2	2+0	Z	V
17ZEL	Basics of Electronics Martin Kropík Martin Kropík (Gar.)	KZ	3	2+2	Z	٧
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	V
02ZFM1	Foundations of Physical Measurements 1  Jan epila	Z	2	2+0	Z	V
02ZFM2	Foundations of Physical Measurements 2  Jan epila	Z	2	0+2	L	V
11ZFPL	Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Eva Mihóková Ladislav Kalvoda (Gar.)	KZ	2	26P+0C	Z	V
12ZFP	Principles of Plasma Physics  Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.)	Z,ZK	4	3+1	L	V
02ZJF	Nuclear Physics Vladimír Wagner Martin Štefa ák Vladimír Wagner (Gar.)	Z,ZK	6	3+2	Z	V
02ZJFB	Nuclear Physics B Vladimír Wagner Martin Štefa ák Vladimír Wagner (Gar.)	KZ	3	3+0	Z	V
15ZKJE	Nuclear Power Plants Design and Operation Tomáš Bílý, Lenka Frýbortová, ubomír Sklenka Lenka Frýbortová Tomáš Bílý (Gar.)	ZK	3	2+0	L	V
16MEZB	Fundamentals of Ionizing-Radiation Metrology  Tomáš echák	Z,ZK	4	2+1	Z	V
01ZOS	Introduction to Operating Systems  Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	L	V
12ZAOP	Fundamentals of Optics Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	V
01ZPB1	Introduction to Computer Security 1 Petr Voká Petr Voká Petr Voká (Gar.)	Z	2	1+1		V
16ZPSP	Basic Work with PC Kamil Augsten Kamil Augsten (Gar.)	Z	2	0+2	1	V
18ZPRO	Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	V
16ZRAO	Basics of Radiation Protection Aneta Dušková Aneta Dušková (Gar.)	Z	2	2+0		V
02ZSM	Introduction to the Standard Model Zden k Hubá ek Zden k Hubá ek (Gar.)	ZK	2	2+0		V
16ZEDB	Basics of Experimantal Data Processing Kate ina Pila ová Kate ina Pila ová (Gar.)	ZK	2	2+0	Z	٧
14ZZKS	Testing and Processing of Metals and Alloys	KZ	4	4	6	V
12ZDP	Data Processing for Publishing Antonín Novotný Antonín Novotný (Gar.)	Z	2	2	Z	٧
02DEF1 His Physics and its place in the	e courses of this group of Study Plan: Code=BSVOLPREDM Natistory of Physics 1 system of sciences. The relationship of man and nature. Natural sciences in ancient Ori. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E	ientand Greece,	Greek natu	ıral philosoph		•
· · · · · · · · · · · · · · · · · · ·	eat and Molecular Physics			7	,ZK	4
- 1	rials, heat transfer; stationary and non-stationary heat conduction, heat transfer and per	netration; 1st and	2nd therm		<i>'</i>	•
	ms: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials;	kinetic theory: M	axwell's ve	locity distribut		
	asics of Programming nly for students with little or no experience in programming. It familiarizes the students v	vith the basic cor	ncepts in pr	 rogramming a	Z   nd with the P	4 ython

Fundamentals of Human Biology, Anatomy and Physiology

Z,ZK

programming language.

02TEF1

Theoretical Physics 1

the first part of the course of classical theoretical physics (02TEF1, 02TEF2).

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

02TEF2   Theoretical Physics 2	Z,ZK	4
Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics		=
Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, e approximation.	ectromagnetic radia	tion in the dipole
02TSFA Thermodynamics and Statistical Physics	Z,ZK	4
Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le		•
Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-car		
of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.		<b>3</b> ,
12NT Nanotechnology	ZK	2
Lectures will introduce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Pl		fundaments of
different technologies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technologies	nologies which are s	ubstantial for
nanostructure preparation. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for		
growths will be discussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric	layer preparation w	ill be mentioned
as well as soldering and encasement.	7.71/	•
01RMF The Equations of Mathematical Physics  The subject of this source is solving integral equations, the source for solving integral equations, the source for solving integral equations at the solving equation in the solving equation in the solving equation in the solving equation in the sol	Z,ZK	6
The subject of this course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	egrai transformations	s, and solution of
12VAK Vacuum Physics and Technology	KZ	4
Rarefied gasses: basic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporation	1	•
through solid matter; Vacuum generation. Pumping process. Pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumpi		•
searching for leaks. Materials and vacuum instalation parts. Practical exercises.	·9 -p , g · · · · , -	,,
12ZPLT Basic Laser Technique Laboratory	KZ	6
Lasers, solid state Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second har	1	_
diode, diode pumped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acous		g,
12ZPOP Basic Optical Laboratory	KZ	6
The practical laboratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborate	1	· ·
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 g		
the lecture is to obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with r	· ·	-
work. Particular topics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane wa		
effects), and further from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It no	-	
anisotropic media, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfer	ence processes, exp	lains elements
of two-wave interference and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a g	raphical form, includi	ng fundamentals
of grating diffraction. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical opti	cs limit. It takes notice	e on geometrical
approach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrum	ents.	
00EKOT Economy in Technology	Z	1
The course introduces the basics of micro- and macroeconomics.		
00RET Rhetoric	Z	1
The course is focused on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted t		nublic chooch
	· · · · · · · · · · · · · · · · · · ·	
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	· · · · · · · · · · · · · · · · · · ·	
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 00UPRA Introduction to Law	· · · · · · · · · · · · · · · · · · ·	
	an integral part of the	ne course.
00UPRA Introduction to Law	an integral part of the	ne course.
00UPRA     Introduction to Law       00UPSY     Introduction to Psychology	an integral part of the	ne course.
00UPRA     Introduction to Law       00UPSY     Introduction to Psychology       12AUX     Administration of UNIX System	an integral part of the	ne course.
00UPRA     Introduction to Law       00UPSY     Introduction to Psychology       12AUX     Administration of UNIX System       Basic and more advanced administration of Unix operating system	an integral part of the Z Z Z KZ	1 1 2 4
00UPRA     Introduction to Law       00UPSY     Introduction to Psychology       12AUX     Administration of UNIX System       Basic and more advanced administration of Unix operating system       01ALG     Algebra	an integral part of the Z Z Z KZ	1 1 2 4
00UPRA     Introduction to Law       00UPSY     Introduction to Psychology       12AUX     Administration of UNIX System       Basic and more advanced administration of Unix operating system       01ALG     Algebra       After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolean	an integral part of the Z Z Z KZ	1 1 2 4
O0UPRA Introduction to Law  O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.	an integral part of the Z Z Z KZ X Z X X X X X X X X X X X X X	1 1 2 4 colynomials over 6
O0UPRA Introduction to Law O0UPSY Introduction to Psychology  12AUX Administration of UNIX System Basic and more advanced administration of Unix operating system  O1ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra	an integral part of the Z Z Z KZ X X N algebras, rings of p Z,ZK N, the axiom of choice	1 1 2 4 colynomials over 6 e and equivalent
O0UPRA Introduction to Law  O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem	an integral part of the Z Z Z KZ X X N algebras, rings of p Z,ZK N, the axiom of choice	1 1 2 4 colynomials over 6 e and equivalent
O0UPRA Introduction to Law O0UPSY Introduction to Psychology  12AUX Administration of UNIX System Basic and more advanced administration of Unix operating system  O1ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis	an integral part of the Z Z Z KZ X N algebras, rings of p Z,ZK N, the axiom of choice I domains, principal Z,ZK	1 1 2 4 colynomials over 6 e and equivalent ideal domains,
O0UPRA Introduction to Law  O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis  The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially administration of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivale	an integral part of the Z Z Z KZ X N algebras, rings of p Z,ZK N, the axiom of choice I domains, principal Z,ZK	1 1 2 4 colynomials over 6 e and equivalent ideal domains,
O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrate fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis  The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espect of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.	an integral part of the Z Z KZ Z KZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1 1 2 4 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2
O0UPRA Introduction to Law  O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis  The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially administration of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated to the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem statements and the set theory cover only: equivale	an integral part of the Z Z Z KZ X N algebras, rings of p Z,ZK N, the axiom of choice I domains, principal Z,ZK	1 1 2 4 colynomials over 6 e and equivalent ideal domains,
O0UPSY Introduction to Law  O0UPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis  The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espect of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.  15CHEM Analytical Calculations and Chemometry Principals  Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors	an integral part of the Z Z Z KZ X X X X X X X X X X X X X X X	the course.  1 1 2 4 polynomials over 6 e and equivalent ideal domains, 4 understanding 2 ons, one- and
O0UPSY Introduction to Law O0UPSY Introduction to Psychology  12AUX Administration of UNIX System Basic and more advanced administration of Unix operating system  O1ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espective to the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.  15CHEM Analytical Calculations and Chemometry Principals Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors two-tailed significance testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing.	an integral part of the Z Z KZ ZK n algebras, rings of p Z,ZK n, the axiom of choice I domains, principal Z,ZK cially oriented to the ZK basic data distribution, seminar part consi	the course.  1 1 2 4 polynomials over 6 e and equivalent ideal domains, 4 understanding 2 ons, one- and sts of equation
OUPRA Introduction to Law OUPSY Introduction to Psychology  12AUX Administration of UNIX System Basic and more advanced administration of Unix operating system  O1ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espective to the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.  15CHEM Analytical Calculations and Chemometry Principals Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors two-tailed significance testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing solving, titration stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. PH calculations, calculations in	an integral part of the Z Z KZ ZK n algebras, rings of p Z,ZK n, the axiom of choice I domains, principal Z,ZK cially oriented to the ZK basic data distribution, seminar part consi	the course.  1 1 2 4 polynomials over 6 e and equivalent ideal domains, 4 understanding 2 ons, one- and sts of equation
OUPRA Introduction to Law OUPSY Introduction to Psychology  12AUX Administration of UNIX System Basic and more advanced administration of Unix operating system  O1ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea commutative fields.  O1ALGE Algebra Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated in the control of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated in the control of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated in the control of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated in the course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espectif the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.  15CHEM Analytical Calculations and Chemometry Principals  Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors two-tailed significance testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing solving, titration stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in spectrophotometry and separation methods, solving of complex forming equilibria.	an integral part of the Z Z Z KZ KZ X X X X X X X X X X X X X X	the course.  1 1 2 4 polynomials over 6 e and equivalent ideal domains, 4 understanding 2 ons, one- and sts of equation metry,
Introduction to Law  OUPSY Introduction to Psychology  12AUX Administration of UNIX System  Basic and more advanced administration of Unix operating system  O1ALG Algebra  After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Booleac commutative fields.  O1ALGE Algebra  Firstly, the Peano axioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorer statements, definition of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integrated fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.  11ANEL Linear Circuit Analysis  The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espect the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.  15CHEM Analytical Calculations and Chemometry Principals  Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors two-tailed significance testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing solving, titration stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in spectrophotometry and separation methods, solving of complex forming equilibria.  04ABZK English - State Examination	an integral part of the Z Z Z KZ X N algebras, rings of p Z,ZK N, the axiom of choice I domains, principal Z,ZK Cially oriented to the Z Z X S basic data distribution, seminar part conspotentiometry, could Z X	the course.  1 1 2 4 polynomials over 6 e and equivalent ideal domains, 4 understanding 2 ons, one- and sts of equation metry, 5
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understanding of profes	English for Intermediate Students M3	Z	1
understanding of profes	English for intermediate Students M3 skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtect	l .	I and independe
• .	sional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The course	also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation	• • •	•
student's field.			
04AP1	English for Advanced Students P1	Z	1
The course is designed	for students who have successfully completed the full secondary school English language course (at least the B1 level of the	e Common Europ	ean Framewor
<del>-</del>	iges - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundame		-
	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.	g (writing a Cv, let	ter of application
04AP2	English for Advanced Students P2	Z	1
-	sed on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chos	I	ience Accordi
	concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhe		
	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of li		
materials. The course e	ttends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused	d on formal writing	including the
sentence and paragrapl	structure, linking, cohesion and coherence in texts.	,	
04AP3	English for Advanced Students P3	Z	1
	sed on 04AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the		
	skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summariz		-
written communication.	a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and in	ilormai language	both in oral and
16APLB	Application of Ionizing Radiation in Analytical Methods	ZK	5
	Application of fortizing Radiation in Ariarytical Methods of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radi	1	_
of technological process			
12APL	Application of Lasers	Z,ZK	2
	ndustrial technologies, medicine, remote sensing, energetics, telecommunication, military, entertainment and other branches		_
11APLG	Applications of Group Theory in Solid State Physics	ZK	2
Consideration of atomic	system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states	there are and wh	at interactions
and transitions between	them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is to describe the methods by which we can extract the information of the course is the course of the course o	ation on the objec	that symmetry
· ·	pplication of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field enviror	nment, normal mo	des of molecul
	rules for optical absorption transitions.	,	T
02AMS	Atomic and Molecular Spectroscopy	Z,ZK	4
	o atomic and molecular spectroscopy.		1
04CESM1	Czech for foreigners - Intermediate	Z	1
	n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the	he student's voca	bulary for vario
social situations.	Internal Hete Oceah O	7	
04CESM2	Intermediate Czech 2 e topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and rea	Z	1
-	on abbreviations, abbreviated words, and mathematical terms and formulas.	ading skills and ti	airis trie studei
04CESM3	Intermediate Czech 3	Z	1
	morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec	1	1
	pping the student's writing skills.	,	,
04CESP1	Czech for Foreign Students - Advanced Examination	Z	1
The prerequisite of the	ourse is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common E	uropean Framew	ork of Reference
	vision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of		0
		science. Students	
It is focused partly on re basics of functional style	e of engineering and professional communication, both in spoken and written form. The topics include University Studies anc		are taught the
It is focused partly on re basics of functional style includes communication	with teachers and faculty administrators.	d Student Life. Wr	are taught the
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01DIM3	Discrete Mathematics 3	Z	2
	to elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar	students present	a problem with
solution chosen from th	_	7.71	
11ELEA	Instrumentation and Measurement uction to the instrumentation and measurement for physicists.	Z,ZK	2
14ELMI		Z,ZK	3
	Electron Microscopy  nts are introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles. The int		_
	ctron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different t		
	ons and tools used in microscopy and to the description of particular parts of the microscopes. Introduction to kinematic and d		
	on and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in		
18ESPG1	European Computer Driving Licence 1	Z	2
	s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro	. – .	
	is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language		
and user functions will I	pe addressed.		
18ESPG2	European Computer Driving Licence 2	Z	2
Spreadsheet calculators	s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows	the winter semeste	er with advanced
VBA programming topic	s (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathema	atics, operational re	esearch, and
computer science.			
16EPAM	Exact Methods in Research of Historic Monuments	ZK	2
Aims and methods of his	toric monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further rad	diation methods, de	endrochronology,
archaeomagnetism), ar	alytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence	analysis and othe	r methods),
photogrammetry.			
02EXF1	Experimental Physics 1	Z	2
Lecture represents an i	ntroductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and me	thods of measurer	ment evaluation.
02EXF2	Experimental Physics 2	ZK	2
Lecture represents an i	ntroductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and me	thods of measurer	ment evaluation.
17ENF	Experimental Neutron Physics	KZ	2
	focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, pro	perties of prompt	and delayed
neutrons, neutron detec	tion methods, neutron induced nuclear reactions, modification and adjustment of neutron field, science and industry neutron	applications. Last	lecture deals
with experimental data	processing and analysis. The lectures are supplemented with experimental practices in the field of neutron detection, determina	ation of delayed ne	utron properties,
study of neutron diffusion	n in various materials, preparation and characterisation of photo-neutron source and neutron source calibration. Experimental	practices will be ru	nning at training
reactor VR-1 and in the	neutron laboratory.		
04FM1	French for Intermediate Students M1	Z	1
French - intermediate F	M The objective of this three-semester course is to improve and further develop communication in the French language in bo	oth written and ora	I form. Students
will be able to communi	cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr	ransmit general ar	nd technical
information and to solve	problems. 04FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, s	systemizes and ex	pands language
-	study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, pe	rsonal statement,	request, answer
to an advert. French cu			
	ture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work	1	exts.
04FM2	French for Intermediate Students M2	Z	1
04FM2 Course FM2 builds on F	French for Intermediate Students M2 M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	Z texts, features typ	1 ical for technical
04FM2 Course FM2 builds on F and scientific language	French for Intermediate Students M2  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 science	Z texts, features typ	1 ical for technical
04FM2 Course FM2 builds on F and scientific language scientists, artists and a	French for Intermediate Students M2 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 scichitects. Description of an object, device, shapes, dimensions, material.	Z texts, features typ ence and technolo	1 ical for technical ogy, French
04FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3	French for Intermediate Students M2 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 sciences. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3	Z texts, features typence and technology	1 ical for technical ogy, French
04FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3 The course is focused of	French for Intermediate Students M2 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 scientiects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3 n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (	Z texts, features typence and technology Z (subordinate and in	1 ical for technical ogy, French  1 nfinitive clauses,
04FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3 The course is focused of participle structures, co	French for Intermediate Students M2 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 scientiects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3 n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c	Z texts, features typence and technology Z (subordinate and integrals)	1 ical for technical ogy, French  1 infinitive clauses, linked to the
04FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3 The course is focused of participle structures, co field of students' future	French for Intermediate Students M2 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 scientitects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3 n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative we	Z texts, features typence and technology Z (subordinate and inclass. The paper is work compiled from	1 ical for technical ogy, French  1 infinitive clauses, linked to the
O4FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3 The course is focused of participle structures, co field of students' future and one's own knowled	French for Intermediate Students M2  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 scientiects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation incospecialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative we ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and or	Z texts, features typence and technology Z (subordinate and inclass. The paper is work compiled from coherence.	1 ical for technical ogy, French  1 infinitive clauses, linked to the
O4FM2 Course FM2 builds on F and scientific language scientists, artists and at 04FM3 The course is focused of participle structures, co field of students' future and one's own knowled	French for Intermediate Students M2  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 scientiects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c 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 french for Advanced Students P1	texts, features typence and technology and technolo	1 ical for technical ogy, French  1 infinitive clauses, linked to the in French articles
O4FM2 Course FM2 builds on F and scientific language scientists, artists and at O4FM3 The course is focused of participle structures, co field of students' future and one's own knowled O4FP1 O4FP advanced course	French for Intermediate Students M2  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 scientiects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c 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 present for Advanced Students P1  The objective of this three-semester course is to improve and further develop communication in the French language in both	texts, features typence and technology and technology and technology and technology are to be a subordinate and includes. The paper is work compiled from the coherence.	1 ical for technical ogy, French  1 infinitive clauses, linked to the in French articles  1 orm. Students
O4FM2 Course FM2 builds on F and scientific language scientists, artists and at O4FM3 The course is focused of participle structures, co field of students' future and one's own knowled O4FP1 O4FP advanced course will be able to communications.	French for Intermediate Students M2  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 science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science chitects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (may be upon the season). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cspecialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative we ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and French for Advanced Students P1  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 work environment. They will be able to use the language to transmit	texts, features typence and technology and technolo	1 ical for technical ogy, French  1 infinitive clauses, linked to the in French articles  1 orm. Students information
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04FZ3	French for Beginners Z3	Z	1
The course builts upon	04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda	- Pravdová: Frend	ch for Beginners.
Topics, functions and si	tuations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in	nformation and lou	ud as part of
pronunciation practice.	Reading covers short adapted texts of general interest first, and later popular science texts.		
04FZ4	French for Beginners Z4	Z	1
	04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The	-	•
	xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the le		
	ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	pping, weather, u	niversity in our
country and in France, I	now to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
04FZ5	French for Beginners Z5	Z	1
All four skills acquired in	FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The	ey present it orally	in the class. The
general contents is cover	ered 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 Frence	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl	lauses, typical cor	njunctions,
subjunctive clauses, ge	rund, passive.		
01FKP	Functions of Complex Variable	ZK	2
The course develops ac	vanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings	, transcendental a	nd meromorphic
functions. Basic propert	ies of complex functions of several complex variables together with improper line integrals and its applications are presentec	l.	
01FKPB	Functions of Complex Variable B	Z	2
The course develops ac	vanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings	, transcendental a	nd meromorphic
functions. Basic propert	ies of complex functions of several complex variables together with improper line integrals and its applications are presentec	i.	
01FAN1	Functional Analysis 1	Z,ZK	4
Basic notions and resul	ts are addressed concerning successively topological spaces, metric spaces, topological vector spaces, normed and Banacl	,	spaces.
01FA1	Functional Analysis 1	Z.ZK	3
-	athematical analysis and algebra introduction to the basics of functional analysis. There are the concepts that students need	,	_
and technical discipline			ranous priyotat
01FA2	Functional Analysis 2	Z,ZK	4
	sent selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed		· ·
•	rs, spectral decomposition of bounded self-adjoint operators.	operators and the	п эрссичт,
02PRA1		KZ	6
	Experimental Laboratory 1	1	-
<u>-</u>	ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea		
<u>-</u>	erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work wit equire of different experimental procedures and routines), willteach writing the records of measurement, processing and eval	-	-
·	owledge gained in lectures on physics.	uation of results. F	At the same time
<u> </u>		1/7	
02PRA2	Experimental Laboratory 2	KZ	6
Lecture is intended esp	ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea	r Engineering). Bu	it it can be also
and a second and have a decorate and a second		le 4le = 1:4 = == 4 : == \ 4le :	- !
•	erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with	, ,	•
of the measurement (ac	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation	, ,	•
of the measurement (ac practically extendthe kn	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and eval- owledge gained in lectures on physics.	uation of results. A	At the same time
of the measurement (ac practically extendthe kn	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluate owledge gained in lectures on physics.  Physical Seminar 1	uation of results. A	At the same time
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of the measurement (ac practically extendthe kn 02FYS1 The seminar is devoted Mechanics. The problem 02FYS2 The seminar is devoted	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation of the records of measurement of the records of measurement, processing and evaluation of the records of the	Z cs presented in the lipments. Z cs presented in the lipments.	2 e course of 2
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02LCF1	Experimental Laboratory 1	Z	2
02LCF2	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2	Z	2
-	field, microwaves, Xray and gamma rays, geometric optics		_
12LT1	Laser Technique 1	Z,ZK	3
=	ility. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an		
	Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersi	on, saturation. Coh	erent and
	opagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.	7 71/	2
12LT2	Laser Technique 2 te equation, the laser amplifier, Q-switching, mode-locking	Z,ZK	2
12LAS	Laser Systems	Z,ZK	3
_	୍ରା Laser Systems osecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers	1 ' 1	_
	niconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ult		-
power continuous lase	rs. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers.		
01LIP	Linear Programming	Z,ZK	3
	ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g	given by linear equa	tions and linea
inequalities).		7.71	
18MAK1	Macroeconomics 1	Z,ZK	4
-	vides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroecon- prium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic		-
•	ations for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phe		
•	se them under the conditions of modern economic life.		
18MAK2	Macroeconomics 2	Z,ZK	4
	ends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macr	•	
- :	ecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to		
modeling, i.e., macroe of labor market model	conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide	es students with mod	dern knowledge
01MAPR		Z,ZK	4
18EKO1	Markov processes  Mathematical Economics 1	Z,ZK	<del></del>
	selected models and methods for economic decision making. The main attention is given to optimization models of linear pro	1 '	-
	solving by means of the current software products.	grammig, possibili	
18EKO2	Mathematical Economics 2	Z,ZK	5
	selected models and methods for economic decision making. The main attention is given to optimization models in graphs, p	1 ' 1	_
management with dete	erministic and stochastic demand, queuing theory and simulation models.		
01MASC	Mathematical Statistics - Seminar	Z	2
	to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation		
	ng unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likeliho		tical regions fo
· · · · ·	g the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric density estimation		4
00MAM1	Essentials of High School Course 1	Z	1
00MAM2	Essentials of High School Math Course 2	Z	1
01MMPV	Mathematical Models of Groundwater Flow	KZ	2
	n overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mathe	1	
-	part is aimed at selected numerical methods, emphasizing implementation issues related to these methods.		
01MMF	Methods of Mathematical Physics	Z,ZK	6
The course provides a	n introduction to the theory of distributions with applications to solutions of partial differential equations with constant coefficie		holm theorems
	ase of a continuous kernel on a compact set as well as Sturm-Liouville operators on bounded intervals, and applications of the	he separation of va	iables method
	boundary value problems and mixed problems.		
18MIK1	Microeconomics 1	Z,ZK	5
	et of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. N	-	
-	these processes, and makes more clear behaviour of the economic agents. This course of Microeconomics I consist of introd	uction in Microecor	omics and
	Microeconomics 2	Z,ZK	5
Consumer Theory.	Microccorionics 2	1 1	_
18MIK2	of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microecond	omics explain the ro	•
18MIK2 Microeconomics is a s	e <sup>t</sup> of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microeconc s and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industria	•	
18MIK2 Microeconomics is a s		•	4
18MIK2 Microeconomics is a s markets in this proces 11MIK	s and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industria	al Organisation.	
18MIK2 Microeconomics is a smarkets in this process 11MIK The course is the intromicroprocessors. The	s and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and principles of interfacing is shown.	al Organisation.  Z,ZK  ircuits and complex	circuits like
18MIK2 Microeconomics is a s markets in this proces 11MIK The course is the intro microprocessors. The 12MPR1	s and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential cimicrocomputer architecture and principles of interfacing is shown.  Microprocessors 1	al Organisation.  Z,ZK ircuits and complex	circuits like
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18MIK2 Microeconomics is a s markets in this proces 11MIK The course is the intro microprocessors. The 12MPR1 Microprocessor and m memory, procedure ca	and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and principles of interfacing is shown.  Microprocessors 1  Icrocomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes (direct, in Ills, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroas	al Organisation.  Z,ZK  ircuits and complex  ZK  idirect, register, relations	d tive,, stack
18MIK2 Microeconomics is a s markets in this proces 11MIK The course is the intro microprocessors. The 12MPR1 Microprocessor and m memory, procedure ca RISC processors - pri	s and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential cimicrocomputer architecture and principles of interfacing is shown.  Microprocessors 1 icrocomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, in IIs, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroasticiples	al Organisation.  Z,ZK  ircuits and complex  ZK  idirect, register, relassembler, programn	circuits like  4  titive,, stack  ning languages
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18MIK2 Microeconomics is a s markets in this process 11MIK The course is the intro microprocessors. The 12MPR1 Microprocessor and m memory, procedure ca RISC processors - prii 12MPR2 Architecture IA-32. Da 12MOF	and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and principles of interfacing is shown.  Microprocessors 1 icrocomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, in Its, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macrosomic Microprocessors 2 in types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assembler. description Molecular Physics	al Organisation.  Z,ZK  ircuits and complex  ZK  indirect, register, relassembler, programn  ZK  n.  ZK	circuits like  4  titive,, stack  ning languages
18MIK2 Microeconomics is a s markets in this process 11MIK The course is the intro microprocessors. The 12MPR1 Microprocessor and m memory, procedure ca RISC processors - prii 12MPR2 Architecture IA-32. Da 12MOF	and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industrial Logical Circuits and Microprocessors duction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and principles of interfacing is shown.  Microprocessors 1 icrocomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, in Ils, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macrosomiciples  Microprocessors 2 a types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assembler. description	al Organisation.  Z,ZK  ircuits and complex  ZK  indirect, register, relassembler, programn  ZK  n.  ZK	circuits like  4 attive,, stack ning languages

I			
04NM1	German for Intermediate Students M1	Z	1
•	se is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena an	, ,	
•	s (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repul	•	
environmental issues to	gether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis	ts, and the fundar	nentals of IT
terminology. It develops	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.		
04NM2	German for Intermediate Students M2	Z	1
The course introduces of	her more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between techno	logy and society,
the world at the beginning	g of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and	d car technology e	tc. Students
<del>-</del>	nation and reading aloud, and appropriate language for various purposes in oral and written communication. The course syster		
	r professional discourse (participles, relative clauses).	•	
·	German for Intermediate Students M2	Z	1
	her more complex grammatical structures and their application in communication based on technical texts, such as the relation	. – .	·
	ing of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
-	nation and reading aloud, and appropriate language for various purposes in oral and written communication. The course syster		
-		natically revises of	inei giaininalicai
	r professional discourse (participles, relative clauses).		
04NP1	German for Advanced Students P1	Z	1
	od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le		
	en focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for	-	
<del>-</del>	ructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	practical everyday	communication,
i.e., telephoning.			
04NP2	German for Advanced Students P2	Z	1
The course develops the	students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	ding their general	and subtechnical
vocabulary range. It intro	duces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and	d practising formal	communication,
both written and oral (C\	/, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).		
04NP3	German for Advanced Students P3	7	1
	main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a va	ariety of less com-	mon situations
	accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v		
	ng, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use		
·	rocess information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The	-	
practice to and from Ger		le course also inc	iuues tialisiation
·		1/7	0
	Numerical Methods 2	KZ	2
	numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equation	•	thods converting
	s to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equ	, ,	
15CH1	General Chemistry 1	Z	3
The most important cond	pepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic	cal use are illustra	ted by examples
solved in exercises.			
15CH2	General Chemistry 2	Z,ZK	3
The subject is the contin	uation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Usi	ing various examp	les, the fact that
the validity of these prince	siples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by	examples solved
in exercises.			
02OR	General Relativity	ZK	3
	neory of relativity: principle of equivalence and principle of general covariance, parallel transport and geodesic equation, gra		
<del>-</del>	w. Schwarzschild solution of the Einstein equations, homogeneous and isotropic cosmological models.		
	Computers and Natural Language 1	Z	2
· ·	tional processing and understanding of natural languages. Automatic methods of morphological and syntactic analysis inclu	1	
•	will be discussed. Two-level morphology, tagging and language models, Viterbi algorithm, grammars, chart parsing, probabil	-	istical metrious
			2
01POPJ2	Computers and Natural Language 2	Z	
<del>-</del>	s to get acquainted with the broad topic of machine translation (MT). Machine translation is a challenging task that can serve		- 1
	is natural languages. We cover several rather different approaches to the task as well as issues related to automatic and ma	inual evaluation of	translation
quality.			
12POAL	Computer Algebra	KZ	2
Lisp, representation of ba	asic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetic	s, simplification, g	reatest common
divisor, resultant, derivat	ion, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, sul	ostitution and patte	ern matching,
algebraic programming,	graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Mac	csyma, Mathemat	ica), miniproject.
01POGR1	Computer Graphics 1	Z	2
The first part of the two-s	semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the sta	ite of the art techn	ologies. Further,
a survey of fundamental p	problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems an	d explanation of th	ne corresponding
algorithms using knowle	dge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of co	omputer graphics	approaches in
-	scientific documents and presentations.	- <del>-</del>	
01POGR2	Computer Graphics 2	Z	2
	wo-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phen-		
•	structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the descripti	•	
	n mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained		
	nimplementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theol	-	•
<del>-</del>	source 3D modeling and rendering software instrument.		
	Computer Networks 1	Z	2
	·		
<del>-</del>	ry and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network	-	
	Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification a		,
	etwork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - Networks 2	, ,	· · · · · · · · · · · · · · · · · · ·
01SITE2	Computer Networks 2	Z	2
-	ry and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network	-	
	Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification a		•
(1 1XI). USE III PIACIICE. IV	etwork security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises.	enai control lines,	mouerns)

01POPR	Advanced Probability	Z	2
-	ed to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We	1	I
=	dom variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parameti	· ·	-
2PIN1	Practical Informatics for Technics 1	Z	2
		_	. –
	ting systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interf		
	g systems. Requirements on operating system for research and technical computing. Operating system UNIX. Basic principles, kerr		
=	utes, working with files. Text editors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling pr	=	-
	ies. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer netwo	orks: Internet. Add	resses and
rotocols TCP/IP. Ne	twork configutation of a computer. Network services: hardware sharing, mail, ftp, etc. Network applications		
2PIN2	Practical Informatics for Technics 2	Z	2
	nre semester course of basics and applications of informatics for science and engineering included as obligatory alternative c	ourse. Constituent	ı t part is realize
	ms. The second part of the course is "Introduction to computer algebra systems?.		
		7	
2PIN3	Practical Informatics for Technics 3	Z	2
ractically oriented the	nree semester course of basics and applications of informatics for science and engineering included as obligatory alternative c	course. Constituent	t part is realize
computer classroo	ms. The third part of the course is "Introduction to scientific computing?.		
5INPR	Laboratory Practice in Instrumental Methods	KZ	4
ractical training of s	tudents in the use of selected modern instrumental methods and techniques for solving some physico-chemical analytical and	1	ı The training is
ū	pratories of Czech Academy of Sciences (Institute of Physical Chemistry) and partly in laboratory at the Department of Nuclea		
1PRA1	Probability and Mathematical Statistics 1	Z,ZK	6
he subject is devote	ed to the introduction to Theory of probability and statistics on measure-theoretic level for discrete models, continuous distributi	ions and general d	istributions of
ındom variables. We	e deal with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This k	nowledge is furthe	r applied to th
	of observations and statistical parametric model estimation.	=	
	'	ZK	2
1PRA2	Probability and Mathematical Statistics 2	1	. –
	d to the statistical techniques for estimation and testing within parametric and nonparametric models such as Maximum likelihood	-	-
ests, Goodness of fi	tness tests of models, confidence regions, etc. We focus on real practical applications of these statistical techniques in frame o	of the specific exam	nples.
1PRST	Probability and Statistics	Z,ZK	4
_	f probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition a	1 '	ı
		_	_
	s as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit		teu and prove
n the basis of this t	heory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are ex	plained.	
1PRSTB	Probability and Statistics B	KZ	4
is a basic course o	f probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition a	and continuing till th	he Kolmoaoro
	s as random variable, distribution function of random variable and characteristics of random variable are treated and basic limi		
			tou and prove
JII tile basis oi tilis t	heory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are ex		
		<u> </u>	1
I6UAZB	Principles of Ionizing-Radiation Applications	ZK	2
	Principles of Ionizing-Radiation Applications  pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radia	ZK	I
	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiations, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiations.	ZK onuclide measurer	nents, use of
distorical outline of a enetration and scat	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use	ZK onuclide measurer e of ionizing radiati	ments, use of ion.
distorical outline of a senetration and scate	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation	ZK onuclide measurer e of ionizing radiati	ments, use of ion.
distorical outline of a senetration and scate	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use	ZK onuclide measurer e of ionizing radiati	ments, use of ion.
listorical outline of a enetration and scate 6FNZB subject is focused or	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation	ZK onuclide measurer e of ionizing radiati	ments, use of ion.
listorical outline of a enetration and scat 6FNZB subject is focused or esonance and ultras	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and method as applied in various types of technical or medical equipment are given as well.	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel	ments, use of ion.  2 ds of magneti
distorical outline of a lenetration and scat 6FNZB Subject is focused or esonance and ultras 12PSEM	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  a biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and measured as applied in various types of technical or medical equipment are given as well.  Problem Seminary	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel	ments, use of ion.  2 ds of magneti
distorical outline of a senetration and scate 6FNZB Subject is focused or esonance and ultrase 2PSEM 5 seminaries with to	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  n biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  prices from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and applications.	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel Z oplication of ionizat	ments, use of ion.  2 ds of magneti  2 ting radiation.
distorical outline of a senetration and scate 6FNZB subject is focused or esonance and ultrast 2PSEM seminaries with to 11PERI	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  n biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  prices from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and appropriate programming of Peripherals Devices	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel Z oplication of ionizat	ments, use of ion.  2 ds of magneti
distorical outline of a senetration and scattle FNZB Subject is focused or esonance and ultrast 2PSEM 25 seminaries with to 11PERI	pplications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  n biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  prices from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and applications.	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel Z oplication of ionizat	ments, use of ion.  2 ds of magneti  2 ting radiation.
listorical outline of a enetration and scate 6FNZB subject is focused or esonance and ultras 2PSEM 5 seminaries with to 1PERI femory organization	polications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation  n biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  price from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and appropriate programming of Peripherals Devices  in input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripherals	ZK conuclide measurer e of ionizing radiati ZK ethods used in fiel Z coplication of ionizat Z als device drivers.	nents, use of ion.  2 ds of magneti  2 ting radiation.
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istorical outline of a enetration and scate 6FNZB ubject is focused or esonance and ultras 2PSEM 5 seminaries with to 1PERI demory organization 1PW imple graphical pro	polications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation In biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Proplem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods, radionuclide dating, further possibilities for the use	ZK conuclide measurer e of ionizing radiati ZK ethods used in fiel Z coplication of ionizat Z als device drivers. Z d reflection.	nents, use of ion.  2 ds of magneti  2 ting radiation.  2
istorical outline of a enetration and scate 6FNZB ubject is focused or esonance and ultras 2PSEM 5 seminaries with to 1PERI demory organization 1PW imple graphical pro	polications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation In biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  prior from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and application of programming of Peripherals Devices  In input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripheral Windows Programming	ZK onuclide measurer e of ionizing radiati ZK ethods used in fiel Z oplication of ionizat Z als device drivers. Z	nents, use of ion.  2 ds of magneti  2 ting radiation.
distorical outline of a enertration and scate 6FNZB Subject is focused or essonance and ultras 2PSEM 5 seminaries with to 1PERI Memory organization 1PW Simple graphical pro 8PRC1	polications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiatering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use Problems of Non-ionizing Radiation In biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and mound as applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Proplem Seminary  Input methods applied in various types of technical or medical equipment are given as well.  Problem Seminary  Input methods, radionuclide dating, further possibilities for the use	ZK conuclide measurer e of ionizing radiati ZK ethods used in fiel Z coplication of ionizat Z als device drivers. Z d reflection.	nents, use of ion.  2 ds of magneti  2 ting radiation.  2
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04RM1	Russian for Intermediate Students M1	Z	1
_	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal		•
-	nmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement		-
	ne course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	t level of the NZZ t	course. The
04RM2	Russian for Intermediate Students M2	Z	1
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.		
04RM3	Russian for Intermediate Students M3	Z	1
·	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h	owever, for half of	the time allotted
in the timetable.		_	
04RP1	Russian for Advanced Students P1 ent for the course is revision of standard language structures, properties of the course is revision of standard language structures, properties of the course is revision of standard language structures, properties of the course is revision of standard language structures, properties of the course is revision of standard language structures.	Z	1
-	in to the course is to achieve the B1 GE1 K level. The objective of the course is revision of standard language structures, με ig the fundamentals of technical language and training writing skills.	acticing more unit	cuit graininai
04RP2	Russian for Advanced Students P2	7	1
	RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives,	verb aspects, spe	cific syntactic
structures). Stress is pu	t on independent oral and written communication.		
04RP3	Russian for Advanced Students P3	Z	1
	RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra	-	
	evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). By is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and		
	cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	-	•
technical topics.		•	
04RZ1	Russian for Beginners Z1	Z	1
· ·	he first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ	_	=
	or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	king). Students will	be able to read
	stress, understand its contents and summarize it.	7	1
04RZ2 The second semester of	Russian for Beginners Z2 fthe programme is designed to teach skills for basic communication in everyday situations and for reading easy and short su	Z ubtechnical texts	•
	ing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will		
master further grammat	ical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.	·	·
04RZ3	Russian for Beginners Z3	Z	1
	RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	_	_
	luces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be	e able to respond	so as to be
04RZ4	ess their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4	Z	1
	04RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text	1	-
	ommunication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., in		-
		regular verbs, unit	erences in verb
patterns from Czech, m	odality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, from	-	
written communication of	odality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, from more specific topics (environment, addictions, the green movement). They become acquainted with various geographical	ee time), and prac	tice oral and
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with advanced pats of		1	6
	focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chos-	en so that students	s can familiarize
02SPRA2	experimental physics and metrology.		
	Special Practicum 2	KZ	6
Physics measurement	focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chos-	į.	s can familiarize
•	experimental physics and metrology.	on oo mar oracon.	0 0411 1411 11141 120
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01STR	Statistical Decision Theory	ZK	2
The subject is devoted	to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutua	al comparisons with	h respect to thei
properties and applica	bility.		
11SFBM	Structure and Function of Biomolecules	Z,ZK	3
_		1 '	_
o .	olecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of	r macromolecules,	overall structure
and its structure:functi	on relationship including macromolecular complexes.		
04SM1	Spanish for Intermediate Students M1	Z	1
The course is designe	for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-sem	ester course devel	lons standard
	ttention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega		
	and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or	or listening to them	
04SM2	Spanish for Intermediate Students M3	Z	1
The course develops t	ne students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for	specific purposes	s in order to be
	alized texts on the Internet.		
			1 4
04SM3	Spanish for Intermediate Students M3	Z	1
The course books are	supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acac	demic style. They v	will be competen
enough to use the Inte	rnet in Spanish and search for information of their specialization or field of interest. Students will use the information to write	short articles and	summaries. The
<del>-</del>	mme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
		7	1
04SP1	Spanish for Advanced Students P1	Z	1
	n more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communica	tion. Course prered	quisites: level B2
of CEFR.			
04SP2	Spanish for Advanced Students P2	Z	1
		_	on independent
	ond part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and sy	yında and iocuses	on independen
written communication			
04SP3	Spanish for Advanced Students P3	Z	1
Course 04SP3 is the fi	nal part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	focused on writter	n communication
	is will need in their career.	roodood on millo.	
		_	
04SZ1	Spanish for Beginners Z1	Z	1
Course 04SZ1 is the fi	rst stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fur	ndamental gramma	ar structures and
will be able to commun	icate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spani	ish and will develo	n it.
04SZ2		7	
U45//	Spanish for Beginners Students Z2	<u> </u>	1
	d on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure	es and lexis will be	e chosen so as
Course 04SZ2 is base	erstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking count		
Course 04SZ2 is base to enable them to under			
Course 04SZ2 is base to enable them to undo Republic. Realia of Sp	erstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking count anish-speaking countries are also included.	tries and others su	uch as the Czech
Course 04SZ2 is base to enable them to undo Republic. Realia of Sp 04SZ3	erstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries are also included.  Spanish for Beginners Z3	tries and others su	uch as the Czech
Course 04SZ2 is base to enable them to undo Republic. Realia of Sp 04SZ3	erstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking count anish-speaking countries are also included.	tries and others su	uch as the Czecl
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16MCRB	Transport of Ionizing Radiation and Monte Carlo Method s of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathemat	Z,ZK	4
	pes of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometric m	-	
	of measured variables and parameters. Statistical evaluation of reliability of modeling results, variance reduction methods, pro	•	
	NP program, its possibilities and use. Procedures for the practical use of the program for typical tasks in the field of dosimetr	y, application of ic	onizing radiation,
	systems, radiation protection and medical applications.		
18INTA	Development of internet applications	KZ	4
· ·	overview of modern technologies for the development of web applications. Students will learn basic web languages and con		
	o relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simple ards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript.	est to more advan	cea. The course
01DYK	Introduction to Continuum Dynamics	Z	2
	uction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with en	_	
	ns, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensors or	-	
of which it is possible to	derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differential	form. In the last pa	art of the course,
these conservation laws	are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body.		
16ZIVB	Introduction to Ecology	KZ	2
-	t basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the en	vironment and ev	aluate economic
indicators and sustainal	· · · · · · · · · · · · · · · · · · ·		
02UFEC	Introduction to Elementary Particle Physics	Z oro proported	2
	easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject		2
11UFPLN	Introduction to Solid State Physics ure is to introduce the undergraduate students to the study of the solid state physics.	ZK	2
17UINZ	Introduction to Engineering	Z,ZK	3
	o an introduction to Engineering profession. Students will gradually learn the characteristics and specialties of engineering		_
	ngineering disciplines, such as the basics of materials science, manufacturing technology, quality control and assurance and	-	
	f R&D activities organization and on selected parts of technical drawings and the work with AutoCAD code.		
02UKP	Introduction to Curves and Surfaces	Z	2
The goal of the lecture is	s an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts	for the curves are	introduced
Frenets formulae are exp	plained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential p	art of the lecture a	are the examples
calculated by students			
12ULT	Introduction to Laser Technique	Z,ZK	3
	netic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase		
12UMF	Introduction to Modern Physics	Z	3
	o be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics cours	e. A part of the co	urse is delivered
in a computational labor			
· ·	·	7 71/	4
18UOA	Introduction into Object Oriented Architecture	Z,ZK	4
18UOA 01UTIZ	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics	ZK	2
18UOA 01UTIZ 11UVOD	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization		
18UOA 01UTIZ 11UVOD The purpose of this lect	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization ure is to introduce the undergraduate students to the physical master degree study programmes.	ZK Z	2
18UOA 01UTIZ 11UVOD The purpose of this lect 12PYTH	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization ure is to introduce the undergraduate students to the physical master degree study programmes. Scientific Programming in Python	ZK Z Z	2 2 2
18UOA 01UTIZ 11UVOD The purpose of this lect 12PYTH The aim of this course is	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization ure is to introduce the undergraduate students to the physical master degree study programmes.	ZK Z Z laced on effective	2 2 2 solutions to real
18UOA 01UTIZ 11UVOD The purpose of this lect 12PYTH The aim of this course is problems. The course is	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization ure is to introduce the undergraduate students to the physical master degree study programmes.  Scientific Programming in Python to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is p	ZK Z  Z laced on effective ent theses. Studer	2 2 solutions to real nts are also
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18UOA 01UTIZ 11UVOD The purpose of this lect 12PYTH The aim of this course is problems. The course is involved in ongoing rese greater part of the course library. We show how to	Introduction into Object Oriented Architecture Introduction to Theoretical Informatics Introduction to Specialization ure is to introduce the undergraduate students to the physical master degree study programmes.  Scientific Programming in Python s to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is p performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude earch. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented on the focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciFigenerate efficient code, how to combine Python with other languages, what tools are available.	ZK Z laced on effective ent theses. Studer or functional progrey and the Matplo	2 2 solutions to real ants are also amming. The tilb graphics
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	Fundamentals of Human Biology, Anatomy and Physiology 2 cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood, blood vessels, main arteries of the body, overview of veins and physiology of blood vessels, main arteries of the body, overview of veins and physiology of blood vessels.	=	4 iew of nerves.
CNS. Visual system and	l physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla	nds.	
	Fundamentals of Radiation Dosimetry 1 and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionizals of the effects of ionizing radiation.	Z,ZK ations, energy tra	4 nsfer and
<u> </u>		717	
16ZDOZ2	Fundamentals of Radiation Dosimetry 2	ZK	2
_	cal effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principle	les and methods o	of measurements
in dosimetry. Determina	tion of activity and neutron source emission. Measurements of absorbed dose and exposure.		
17ZEH	Basics of Economic Assessment	ZK	2
The course focuses on	the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and the	he basic compone	ent parts of
microeconomics. Lectur	es continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc	. and their applica	tions in electrical
energy resources evaluate	ation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.		
17ZEL	Basics of Electronics	KZ	3
	nformation of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and		_
	al with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor compo		
	ntinue with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/c		
completed with electron		aigitai conventore.	Lootaroo aro
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12ZEL1	Basic Electronics 1	Z,ZK	3
	imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir	=	
circuits include symbolic	c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effec	cts inside linear ci	-
12ZEL2	Basic Electronics 2	Z,ZK	3
The subject follows up v	with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic	themes of logical	circuits field.
02ZFM1	Foundations of Physical Measurements 1	Z	2
	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,	_	l
_	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired day		-
basic habits of work in a		ala on a r o. olaa	chiologin the
		7	
02ZFM2	Foundations of Physical Measurements 2	Z	2
-	is devoted to the essentials of measurements of the most important physical quantities. It is especially recommended to thos		
	icula - Physical engineering and Nuclear engineering. Also the methods of evaluation of statistical data using PC and practica	al work with meas	urement devices
is involved. Students lea	rn main rules connected with experimental work in physical laboratory.		
11ZFPL	Basic to Solid State Physics	KZ	2
Description of fundamen	ntal properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bon	ding interaction b	etween atoms in
solids, various types of o	rystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and b	pasic thermal prop	erties of crystals
are derived. The periodi	c potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons	s in solids by mea	ns of electron
· ·	. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to	=	
interpret a broad pheno	menological basis of physical properties of crystalline solids		
	menological basis of physical properties of crystalline solids	7 7K	4
12ZFP	Principles of Plasma Physics	Z,ZK	4
12ZFP Basic physics of high te	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants,	linear theory of w	aves in plasmas
12ZFP Basic physics of high te and propagation of elec	Principles of Plasma Physics  mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particles.	linear theory of w	aves in plasmas
12ZFP Basic physics of high te and propagation of elec It comprises brief introd	Principles of Plasma Physics  mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and paruction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.	linear theory of wametric instabilitie	vaves in plasmas es are explained.
12ZFP Basic physics of high te and propagation of electic comprises brief introd 02ZJF	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particular into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics	linear theory of wametric instabilities	vaves in plasmas es are explained.
12ZFP Basic physics of high te and propagation of electic comprises brief introd 02ZJF	Principles of Plasma Physics  mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and paruction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.	linear theory of wametric instabilities	vaves in plasmas es are explained.
12ZFP Basic physics of high te and propagation of elec It comprises brief introd 02ZJF This scientific field present	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particular into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics	linear theory of wametric instabilities	vaves in plasmas es are explained.
12ZFP Basic physics of high te and propagation of elec It comprises brief introd 02ZJF This scientific field presintuition regarding the b	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particular into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic do ehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.	linear theory of wametric instabilities	vaves in plasmas es are explained.
12ZFP Basic physics of high te and propagation of elec It comprises brief introd 02ZJF This scientific field presintuition regarding the b 02ZJFB	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particle into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic dolehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.  Nuclear Physics B	linear theory of wametric instabilitie  Z,ZK main, where much	aves in plasmas es are explained.  6 h of our classical
12ZFP Basic physics of high te and propagation of elec It comprises brief introd 02ZJF This scientific field presintuition regarding the b 02ZJFB This scientific field president	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particle into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic dolehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.  Nuclear Physics B ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic dolehaviour of objects fails us.	linear theory of wametric instabilitie  Z,ZK main, where much	aves in plasmas es are explained.  6 h of our classical
12ZFP Basic physics of high te and propagation of elect It comprises brief introd 02ZJF This scientific field prescintuition regarding the b 02ZJFB This scientific field prescintuition regarding the b	Principles of Plasma Physics mperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, tromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and particle into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.  Nuclear Physics ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic dolehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.  Nuclear Physics B ents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic dolehaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.	Inear theory of wametric instabilities  Z,ZK main, where much  KZ main, where much	aves in plasmas es are explained.  6 h of our classical a of our classical
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16ZEDB	Basics of Experimantal Data Processing	ZK	2
Statistical analysis of ex	perimental data; univariate data; calibration; regression; multivariate data.	•	
14ZZKS	Testing and Processing of Metals and Alloys	KZ	4
Abstract: Tension tests,	hardness, impact toughness, technological testing, fatigue testing, creep testing. Light microscopy, preparation of specimens	for macro- and m	cro-observation.
Casting, forming, welding	g, soldering, brazing, powder metallurgy, mechanical machining. Copper alloys, aluminium alloys, titanium alloys, special allo	ys of non-ferrous i	netals. Technical
drawing and CAD.			
12ZDP	Data Processing for Publishing	Z	2
Typography, computer of	omputer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming langua	ages for typesettir	ig (TeX, LaTeX,
HTML, XML,, publishi	ng into www pages, cloud computing,commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, P	PS, PPSX, RFT, 2	<ls, td="" xlsx),<=""></ls,>
multimedial presentation	ns, multimedial formats.		

## List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology The course introduces the basics of micro- and macroeconomics.	Z	1
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
00MAM2	Essentials of High School Math Course 2  Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focuse	ed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the converbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an		-
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ALG	Algebra	ZK	4
After an introduction in	nto the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolean algebras,	oras, rings of polyn	
01ALGE	Algebra	Z,ZK	6
statements, definition	oms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the an of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral dom fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.	ains, principal idea	-
01DEM	History of Mathematics	Z	1
The subject has the fo	orm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gi from the history of mathematics.	ve their talks on va	roius topic
01DIFR	Differential Equations	Z,ZK	4
	introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.		
01DIM1	Discrete Mathematics 1	Z	2
'	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	'	!
01DIM2	Discrete Mathematics 2	Z	2
	The seminar is devoted to recurrence relations. It includes individual problem solving.	'	
01DIM3	Discrete Mathematics 3	Z	2
The subject is devote	ed to elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar stu- solution chosen from the given literature.	idents present a p	roblem with
01DYK	Introduction to Continuum Dynamics	Z	2
This course is an ir	ntroduction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with employed	ohasis on vector a	nd tensor
	forms, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensors or sulto derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differential form		
04DVCV	these conservation laws are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body.	71/	2
01DYSY	Theory of Dynamic Systems	ZK	3
The course provides	, , ,		
up the understandin detail, including sta explained with the em	an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and go fithe dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the dynamical behavior of systems and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obserphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All	control theory. First descriptions are descriptions are descriptions and realizes stabilizing feedbaces	escribed in ations are k controllers
up the understandin detail, including sta explained with the em are also parameteri	an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and any of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obserphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All state golynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both of	control theory. First descriptions are de vability, and realiz stabilizing feedbact ontinuous and disc	escribed in ations are k controllers crete time.
up the understandin detail, including star explained with the em are also parameteria 01FA1	an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and no of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obserphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All	control theory. First descriptions are devability, and realizes stabilizing feedbace ontinuous and discrete	escribed in ations are k controllers crete time.
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up the understandin detail, including sta explained with the em are also parameteric 01FA1   Continuing course of 01FA2	an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and a provide the necessary mathematical background. Internal and external system of the variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obserphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All stated using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both concepts that students need to unanthematical analysis and algebra introduction to the basics of functional analysis. There are the concepts that students need to unand technical disciplines.	control theory. First descriptions are devability, and realiz stabilizing feedback ontinuous and disc Z,ZK nderstand the varion	escribed in ations are k controller crete time.  3 ous physica
up the understandin detail, including sta explained with the em are also parameteric 01FA1   Continuing course of 01FA2	an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and ag of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of the variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obserphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All szed using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both concepts that students need to unanthematical analysis and algebra introduction to the basics of functional analysis. There are the concepts that students need to unand technical disciplines.  Functional Analysis 2  present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed or	control theory. First descriptions are devability, and realiz stabilizing feedback ontinuous and disc Z,ZK nderstand the varion	escribed in ations are k controller crete time.  3 ous physica

01FKP	Functions of Complex Variable	ZK	2
	os advanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings, trai		neromorphic
	nctions. Basic properties of complex functions of several complex variables together with improper line integrals and its applications a		1
01FKPB	Functions of Complex Variable B	Z	2
	os advanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings, tran Inctions. Basic properties of complex functions of several complex variables together with improper line integrals and its applications a		neromorphic
01GTDR		Z	2
	Geometric Theory of Ordinary Differential Equations ts of the qualitative theory of ODEs dealing with the geometric and topological properties of the solution. In this context, we mention so	_	1
	of the existence and uniqueness, continuous dependence on parameters and initial conditions. Main part is devoted to the autonomo	-	baoio rocano
01JEPR	Simple Compilers	Z	2
	Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.	ı	ļ
01LA1	Linear Algebra 1	Z	1
	The subject summarizes the most important notions and theorems related to the study of vector spaces.		
01LAA2	Linear Algebra A2	Z,ZK	6
-	evoted to the theory of linear operators on vector spaces (mainly equipped with scalar product). In the same time we introduce the co		
01LAB2	Linear Algebra B2	Z,ZK	4
	mmarizes the most important notions and theorems related to the matrix theory, to the study of vector spaces with a scalar product a	Z	
01LAL	Linear Algebra 1  Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of I	_	2 Frobenius
1. Vector space. 2	theorem.	ineai mappings. 7.	. I Tobernus
01LALA	Linear Algebra A 1, Examination	ZK	5
01LALB	Linear Algebra B 1, Examination	ZK	3
01LAP	Linear Algebra Plus	Z,ZK	5
0 · <u>_</u> · · ·	The subject summarizes the most important notions and theorems related to the study of vector spaces.	_,	1
01LAZ	Linear Algebra 1, Examination	ZK	2
	The content of this subject is the exam in Linear Algebra 1.		ı
01LIP	Linear Programming	Z,ZK	3
We study special p	roblems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given	by linear equation	ns and linear
	inequalities).		T
01LNA1	Linear Algebra 1	Z	2
041444	The subject summarizes the most important notions and theorems related to the study of vector spaces.	_	
01MA1	Calculus 1	Z	4
01MAA2	Basic course of real analysis (functions of one real variable, differential calculus).  Calculus A2	Z,ZK	10
	bject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the number series and	'	10
01MAA3	Calculus A3	Z,ZK	10
	Function sequences and series, foundation of topology, and differential calculus of several variables.	_,	
01MAA4	Calculus A4	Z,ZK	10
	Integration of functions of several variables, measure theory, foundation of differential and integral calculus on manifolds and comple	x analysis.	
01MAB2	Calculus B2	Z,ZK	7
	Basic calculus (real analysis, indefinite and definite integrals and series).	<u> </u>	
01MAB3	Calculus B3	Z,ZK	7
The course is devot	ed to functional sequences and series, theory of ordinary differential equations, theory of quadratic forms and surfaces, and general th and prehilbert?s spaces.	eory of metric spa	ces, normed
01MAB4	Calculus B4	Z,ZK	7
	voted properties of functions of several variables, differential and integral calculus. Furthermore, the measure theory and theory of L		1
01MAN	Calculus 1	Z	4
01100	Basic calculus (real analysis, functions of one real variable, differential calculus).	_	
01MANA	Calculus A 1, Examination	ZK	6
	Examination of knowledge about stuff lectured in the 01MAN course.		'
01MANB	Calculus B 1, Examination	ZK	4
	Examination of knowledge about stuff lectured in the 01MAN course.	1	
01MAP	Calculus Plus	ZK	6
01MAPR	Markov processes	Z,ZK	4
01MASC	Mathematical Statistics - Seminar	Z	2
	voted to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation o		
	inding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood, o pothesis testing using the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric densi		al regions for
01MAZ	Calculus 1, Examination	ZK	4
01MMF	Methods of Mathematical Physics	Z,ZK	6
	s an introduction to the theory of distributions with applications to solutions of partial differential equations with constant coefficients,	,	_
· · · · · · · · · · · · · · · · · · ·	he case of a continuous kernel on a compact set as well as Sturm-Liouville operators on bounded intervals, and applications of the s		
	to the solution of some boundary value problems and mixed problems.		
01MMPV	Mathematical Models of Groundwater Flow	KZ	2
The course prov	des an overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mathen		s of these
0.000	problems. The second part is aimed at selected numerical methods, emphasizing implementation issues related to these methods.		_
01NME2	Numerical Methods 2	KZ	2
	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. Iary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differ	=	s converting
Dount	and trained production to minute value production and minute americane mentions for empire, parabolic and mistrorder hyperbolic partial differ	oniua equalions.	

01NUM1			
	Numerical Mathematics 1	Z,ZK	4
The course introd	uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good	l understanding of	the root of
	theoretical methods.		
01PERI	Programming of Peripherals Devices	Z	2
Memory or	rganization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripherals	herals device drive	
01POGR1	Computer Graphics 1	Z	2
	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of		
	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex		
algorithms using k	nowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com	puter graphics app	proaches in
0.4.00.000	the process of authoring scientific documents and presentations.	_	
01POGR2	Computer Graphics 2	Z	2
	of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenom		
	a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description		
=	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained ir orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic		
at I NOFE. The alge	using Blender, an open-source 3D modeling and rendering software instrument.	ai concepts are de	inonstrated
01POPJ1	Computers and Natural Language 1	7	2
	mputational processing and understanding of natural languages. Automatic methods of morphological and syntactic analysis includir	_	
	isambiguation will be discussed. Two-level morphology, tagging and language models, Viterbi algorithm, grammars, chart parsing, pro	-	
01POPJ2	Computers and Natural Language 2	7	2
	urse is to get acquainted with the broad topic of machine translation (MT). Machine translation is a challenging task that can serve as	_	
_	implex as natural languages. We cover several rather different approaches to the task as well as issues related to automatic and man	-	- 1
or systems as co	quality.	idai evaldation oi ti	ansiation
01POPR	Advanced Probability	Z	2
	evoted to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We de-	_	
•	of random variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parametric	-	- 1
01PRA1	Probability and Mathematical Statistics 1	Z,ZK	6
-	voted to the introduction to Theory of probability and statistics on measure-theoretic level for discrete models, continuous distributions		
	We deal with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This know		
random variables.	statistical processing of observations and statistical parametric model estimation.	icage is fartifier ap	plica to the
01PRA2	Probability and Mathematical Statistics 2	ZK	2
-	ted to the statistical techniques for estimation and testing within parametric and nonparametric models such as Maximum likelihood prin		!
•	ess of fitness tests of models, confidence regions, etc. We focus on real practical applications of these statistical techniques in frame		
01PRST	Probability and Statistics	Z,ZK	4
	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and		
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	_	- 1
On the	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testir	ng are explained.	
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testin  Probability and Statistics B	ng are explained.	4
01PRSTB	Probability and Statistics B	KZ	4
01PRSTB It is a basic course		KZ continuing till the K	4 Kolmogorov
01PRSTB It is a basic course definition. The notice	Probability and Statistics B of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	KZ continuing till the kerorems are stated a	4 Kolmogorov
01PRSTB It is a basic course definition. The notice	Probability and Statistics B of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	KZ continuing till the kerorems are stated a	4 Kolmogorov
01PRSTB It is a basic course definition. The notion on the	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing.	KZ continuing till the K corems are stated a ng are explained.	4 Kolmogorov and proved.
01PRSTB It is a basic course definition. The notice On the O1PSL	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing LaTeX - Publication Instrument	KZ continuing till the K corems are stated a ng are explained.	4 Kolmogorov and proved.
01PRSTB It is a basic course definition. The notice On the O1PSL	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testin  LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	KZ continuing till the K orems are stated a ng are explained. Z	4 Kolmogorov and proved.
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW  Simple	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificat	KZ continuing till the k orems are stated a ng are explained. Z Z tion and reflection.	4 (colmogorov and proved.
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple 01RMF	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testin  LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming	KZ continuing till the k orems are stated a ng are explained.  Z  tion and reflection.  Z,ZK	4 Colmogorov and proved.
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple 01RMF	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated The Equations of Mathematical Physics	KZ continuing till the k orems are stated a ng are explained.  Z  tion and reflection.  Z,ZK	4 Colmogorov and proved.
01PRSTB It is a basic course definition. The notion On the O1PSL  01PW Simple  01RMF The subject of this	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing the basic of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing the basic of this theory the basic methods of mathematical Instrument and the course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX windows Programming graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated the Equations of Mathematical Physics course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral transpartial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	KZ continuing till the k orems are stated a ng are explained.  Z  tion and reflection.  Z,ZK ansformations, and	4 Acolmogorov and proved.  2  2  6 d solution of
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple  01RMF The subject of this	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated The Equations of Mathematical Physics  course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral trees.	KZ continuing till the k orems are stated a ng are explained.  Z tion and reflection.  Z,ZK ansformations, and	4 Acolmogorov and proved.  2  2  6 d solution of
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple  01RMF The subject of this  01RSWP The course Project	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing.  LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated  The Equations of Mathematical Physics  course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral trepartial differential equations (boundary value problem for eliptic PDE), mixed boundary problem for eliptic PDE).  Project Management of Software Projects	KZ continuing till the k orems are stated a ng are explained.  Z tion and reflection.  Z,ZK ansformations, and  KZ ojects of very divers	4 colmogorov and proved.  2  2  6 d solution of  2 e character.
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple  01RMF The subject of this  01RSWP The course Project	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing.  LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated and the system integral equations, theory of generalized functions, classification of partial differential equations, theory of integral trepartial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).  Project Management of Software Projects  management of software projects is dedicated to an explanation of general ideas, rules and procedures which are common to many procedures.	KZ continuing till the kerorems are stated and are explained.  Z tion and reflection.  Z,ZK ansformations, and  KZ pjects of very diversinanagement. Spec	4 colmogorov and proved.  2  2  6 d solution of  2 e character.
01PRSTB It is a basic course definition. The notice On the O1PSL  01PW Simple  01RMF The subject of this  01RSWP The course Project The course structure	Probability and Statistics B e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing.  LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX  Windows Programming  graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificated and the solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral transpartial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).  Project Management of Software Projects  management of software projects is dedicated to an explanation of general ideas, rules and procedures which are common to many profect corresponds to a lifecycle of typical projects including many other aspects which have to be taken into account in the course of their mis paid to software project management and to IT projects in general. Interdisciplinary view of project management is emphasited.	KZ continuing till the kerorems are stated and are explained.  Z tion and reflection.  Z,ZK ansformations, and  KZ pjects of very diversinanagement. Spec	4 colmogorov and proved.  2  2  6 d solution of  2 e character.
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01PRSTB It is a basic course definition. The notic On the O1PSL  01PW Simple  01RMF The subject of this O1RSWP The course Project The course structur  01SITE1 Understanding the TCP/IP communica (PKI). Use in prace (PKI). Use (PK	Probability and Statistics B of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and ones as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the ele basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing.  LaTeX - Publication Instrument The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX Windows Programming graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificat The Equations of Mathematical Physics course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of generalized functions, classification of partial differential equations, theory of generalized functions of Software Projects management of software projects is dedicated to an explanation of general ideas, rules and procedures which are common to many protectorresponds to a lifecycle of typical projects including many other aspects which have to be taken into account in the course of their mis paid to software project management and to IT projects in general. Interdisciplinary view of project management is emphasited to software project management and to IT projects in general. Interdisciplinary view of project management is emphasited to software project management and to IT projects in general. Interdisciplinary view of project management is emphasited to software project management and to IT projects in general. Interdisciplinary view of project management is emphasited to software project management and to IT projects in general. Interdisciplinary view of project management is emphasically and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network protions. Inte	KZ continuing till the kerorems are stated and are explained.  Z tion and reflection.  Z,ZK ansformations, and  KZ ejects of very diverse produced.  Z tocols, practical experial control lines, reprial contr	4 colmogorov and proved.  2  6 d solution of  2 ee character. iffic attention  2 ercises with infrastructure modems)  2 ercises with offrastructure modems)

01SSM2	Seminar of Contemporary Mathematics 2	Z	2
	provides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic		
01STR he subject is devo	Statistical Decision Theory ted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual con properties and applicability.	ZK nparisons with res	2 pect to the
01TKO	Theory of Codes  Algebraic methods used in error detecting and error correcting codes.	ZK	2
01TOP	Topology  The aim of lecture is the systematization and deepening the knowledge of general topology.	ZK	2
01UTIZ	Introduction to Theoretical Informatics	ZK	2
01VYMA	Selected Topics in Mathematics	Z.ZK	4
-	plete orthogonal systems, expansion of functions into Fourier series, trigonometric Fourier series and their convergence. Complex analy functions, integral, Cauchy's theorem, Cauchy's integral formula, singularities, Laurent series, residue theorem.	,	nolomorph
01ZOS Introduc	Introduction to Operating Systems tion to structure of operating systems. Processes, thread, memory management. Synchronization of multi=threaded applications. Mer	Z mory mapped files	. 2
01ZPB1	Introduction to Computer Security 1	Z	2
02AMS	Atomic and Molecular Spectroscopy  The lecture is devoted to atomic and molecular spectroscopy.	Z,ZK	4
02DEF1	History of Physics 1	Z	2
Helenistic period,  02DEF2  Development of	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philosofactions. Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, Has experimental science. Newton and his work.  History of Physics 2  If classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. Elevanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.	Luygens. The birth  Z  Lectricity and magi	of physics 2 netism -
	hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear en standard model. The concept of Nature and Universe of today.		
02DRG	Differential Equations, Symmetries and Groups  The purpose of the lecture is to teach students computation of symmetries of the differential equations.	Z	4
-	Electricity and Magnetism  oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conductors and circuits	=	6 he relativi
	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, M.		0
02EXF1 ecture represents	Experimental Physics 1 an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method	Z s of measurement	2 t evaluatio
02EXF2	Experimental Physics 2	ZK	2
ecture represents	an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method	s of measurement	evaluatio
	Physical Seminar 1 evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics		2 course of
	nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora		0
	Physical Seminar 2  levoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics  I Magnetism. The problems are chosen studied and presented by the students themselves, with the possibility to use PC and physica		
02KF	Quantum Physics	Z.ZK	3
-	i, wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heisel quantization of angular momentum, solution of simple systems, hydrogen atom.	,	_
02KVAN	Quantum Mechanics	Z,ZK	6
he lecture describ	bes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as well as its includes description of observable quantities by operators in the Hilbert space and calculation of their spectra.		sides that
02LCF1	Experimental Laboratory 1  Cavendish experiment. Elasticity. Thermal capacities. Electric measurements, Acoustic. Oscillations.	Z	2
02LCF2	Experimental Laboratory 2  Electric and magnetic field, microwaves, Xray and gamma rays, geometric optics	Z	2
	Mechanics  ics, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimensional free particles, two-body problem, collisions. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid body	-	
02MECHZ	continuum mechanics, elasticity, hydrodynamics. Sound.  Mechanics - Examination	ZK	2
02NSAD	The content of the subject is the examination according to the plan of studies.  Simulations and Data Analysis Tools  Pate analysis and simulations of high analysis along actions and Divisions POOT and Division and Divisions a	Z	2
02OR	Data analysis and simulations of high energy elementary particle collisions. ROOT and Pythia programs.  General Relativity  eral theory of relativity: principle of equivalence and principle of general covariance, parallel transport and geodesic equation, gravita	ZK	3
_	Einstein's gravitational law. Schwarzschild solution of the Einstein equations, homogeneous and isotropic cosmological mode	ls.	
ttended by student	Experimental Laboratory 1  despecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering, Nuclear Engineering), some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering), the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the tacquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation practically extendthe knowledge gained in lectures on physics.	eliterature), the imp	lementatio

02PRA2	Experimental Laboratory 2	KZ	6
	d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear E		
	ts interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the		
or the measuremer	nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati- practically extendthe knowledge gained in lectures on physics.	on of results. At the	e same ume
02RQGP1	Seminar on Quark-Gluon Plasma 1	Z	1
OZIKQOI I	The aim of the seminar is discuss the selection of the most fundamental articles in heavy ion physics.	_	•
02RQGP2	Seminar on Quark-Gluon Plasma 2	Z	1
	The aim of the seminar is discuss the selection of the most fundamental articles in heavy ion physics.		!
02SMF	Seminar of Mathematical Physics	Z	2
The purpose of the	ne seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm	ent will present sir	nple tasks
	concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year		
02SPRA1	Special Practicum 1	KZ	6
Physics measurem	ent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen s with advanced pats of experimental physics and metrology.	o that students car	n familiarize
02SPRA2	Special Practicum 2	KZ	6
	pectain raction 12 ent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen s		- 1
,	with advanced pats of experimental physics and metrology.		
02TEF1	Theoretical Physics 1	Z,ZK	4
The course is an int	troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism	as well as diferent	approaches
	lynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar		, ,
problem, the motion	on 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
007550	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).	7 71/	4
02TEF2	Theoretical Physics 2 sformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and	Z,ZK	ory in the
	me. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electron		- 1
	approximation.		
02TER	Heat and Molecular Physics	Z,ZK	4
Thermal expansion	of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynami	c principle, ideal a	nd real gas,
	cal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis	ribution,equipartiti	on theorem.
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatel		
Basics of many boo	dy descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical of crystals and the black body radiation). The Boltzmann equation is usedto discusses simple transport phenomena.	ensemble, Fermi (	gas, models
02UFEC	Introduction to Elementary Particle Physics	7	2
	se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su	_	
02UKP	Introduction to Curves and Surfaces	Z	2
The goal of the le	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts f	ı or the curves are ir	ntroduced
Frenets formulae ar	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part	of the lecture are th	ne examples
	calculated by students		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
-	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza metrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro		
concrenec. Geol	equation, stationary states and spectra of finite systems.	igne waves, the oci	ilodiligoi
02ZFM1	Foundations of Physical Measurements 1	Z	2
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c		
other branches. T	he goal of the lecture is to introducethe basics of physical measurements, the methods of processing and evaluation of acquired data	a on a PC. Student	slearn the
	basic habits of work in a physics lab.		
02ZFM2	Foundations of Physical Measurements 2	Z	2
	purse is devoted to the essentials of measurements of the most important physical quantities. It is especially recommended to those significantly and Nuclear assistance in a state of a solution of attaining data using DC and practically	_	
one of the physicas	curricula - Physical engineering and Nuclear engineering. Also the methods of evaluation of statistical data using PC and practical w is involved. Students learn main rules connected with experimental work in physical laboratory.	ork with measuren	ieni devices
02ZJF	Nuclear Physics	Z,ZK	6
	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domai		' '
	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic pl		
02ZJFB	Nuclear Physics B	KZ	3
This scientific field	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domai		our classical
	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic pl	-	
02ZSM	Introduction to the Standard Model	ZK	2
rarticles, leptons, h	nadrons, baryons, mesons, symmetry, symmetry group, quarks, gluons, partons, standard model of electroweak and strong interaction scattering cross section.	ns, quantum chror	nodynamics
04ABZK	(QCD), cross section, scattering cross section.  English - State Examination	ZK	5
	ent is the examination as given by the study plan. Student is eligible for the State language examination (level C1 or B2 of CEFR) only		
	and examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also exam	-	
	examination conditions comply with respective rules and regulations for state language examinations.	•	. ,
04AKS	English Conversation	Z	1
	velop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication skills acquired throughout their previous studies.		
their vocabulary fo	r various communication situations and will master their communication strategy. They will also practise their listening skills in order to		participate
	iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more cor		

04414	English for Intermediate Students M4	7	1
04AM1	English for Intermediate Students M1	Z	1
	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the Co anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of v	-	
	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical inte	-	
iolessional oral e	extending the knowledge of grammar issues used in EAP.	rest. Attention i	s also palu ti
04AM2	English for Intermediate Students M2	Z	1
-	e expects the student to have completed the 04AM1 course. It develops their skills for work with subtechnical texts, focusing also more or	<del>-</del>	1
	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided v		
na ioxioai itomo ty	revision is included.	Withing. It floods	oary, gramm
04AM3	English for Intermediate Students M3	Z	1
	ps the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnica	<del>_</del>	
	f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication a	•	•
•	purse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on		
	student's field.		
04AMZK	English for Intermediate Students Examination	ZK	4
	nt is the examination as given by the study plan. The examination covers the 04AM1, 04AM2, and 04AM3 courses and consists of two		100 min) an
	0-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three		
04AP1	English for Advanced Students P1	Z	1
	igned for students who have successfully completed the full secondary school English language course (at least the B1 level of the Co	<del>-</del>	n Framewo
	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamenta	•	
	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gra		-
overs professiona	I oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (wri	ting a CV, letter	of applicatio
	polite request). If necessary, revision of selected grammar topics is included.		
04AP2	English for Advanced Students P2	Z	1
ne 04AP2 course	is based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen br	anches of scier	ice. Accordi
to the students' r	needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetoi	rical functions (	e.g., various
types of descrip	tions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of ling	uistically more	demanding
materials. The co	urse extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on	formal writing i	ncluding the
	sentence and paragraph structure, linking, cohesion and coherence in texts.		
04AP3	English for Advanced Students P3	Z	1
ne 04AP3 course	is based on 04AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text	t. It includes tra	ining oral a
written communi	cation skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing	, writing an abs	tract) and, i
ossible also pro	paring a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and inform		41- 1 1
ossible, also prep	paining a project on a given or onesen topic and presenting it. The obtained places emphasis on distinguishing levels or formal and inform	ıaı ıanguage bo	th in oral ar
lossible, also prep	written communication.	iai ianguage bo	th in oral an
04APZK		ZK	tn in oral an
04APZK	written communication.	ZK	5
04APZK The course cont	written communication.  English for Advanced Students Examination	ZK ty to apply their	5 knowledge
04APZK The course cont btained in the thr	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilities 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.	ZK ty to apply their oic from the stud	5 knowledge
04APZK The course cont btained in the thr	written communication.  English for Advanced Students Examination  ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate	ZK ty to apply their oic from the stud Z	5 knowledge dent's field
04APZK The course cont btained in the thr	written communication.  English for Advanced Students Examination  ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilities 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the students.	ZK ty to apply their oic from the stud Z	5 knowledge dent's field
04APZK The course cont btained in the thr  04CESM1 ne course is focus	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusocial situations.	ZK ty to apply their oic from the stud Z	5 knowledge dent's field
04APZK The course control brained in the thr 04CESM1 ne course is focus 04CESM2	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusocial situations.  Intermediate Czech 2	ZK ty to apply their pic from the stud Z udent's vocabul	5 knowledge dent's field far 1 ary for vario
04APZK The course cont btained in the thr 04CESM1 ne course is focus 04CESM2	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusical situations.  Intermediate Czech 2  pos the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading	ZK ty to apply their pic from the stud Z udent's vocabul	5 knowledge dent's field far 1 ary for vario
04APZK The course cont btained in the thr  04CESM1 ne course is focus  04CESM2 he course develo	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusional situations.  Intermediate Czech 2 pps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.	ZK ty to apply their pic from the stud Z udent's vocabul	5 knowledge dent's field of the
04APZK The course cont btained in the thr 04CESM1 ne course is focus 04CESM2	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusical situations.  Intermediate Czech 2  pos the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading	ZK ty to apply their pic from the stud Z udent's vocabul	5 knowledge dent's field far 1 ary for vario
04APZK The course control of the course is focus 04CESM1 ne course is focus 04CESM2 he course develor	written communication.  English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilitiee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a top study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stusical situations.  Intermediate Czech 2 pos the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  Intermediate Czech 3 revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especial	ZK ty to apply their pic from the student s vocabula  Z g skills and train	5 knowledge dent's field 1 arry for vario 1 as the stude
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04APZK The course control of the three course is focus 04CESM1 The course is focus 04CESM2 The course develor 04CESMZK The last course is focus 04CESMZK The course contenual of the prerequisite of is focused partly basics of function 04CESP2 The course extending the course develor 04CESP3 The course contenual of the course course contenual of the course co	English for Advanced Students Examination ent is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the abilities of 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a tor study.  Czech for foreigners - Intermediate sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the structures in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  Intermediate Czech 2 ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  Intermediate Czech 3  Intermediate Czech 3  Intermediate Student's knowledge of more difficult language phenomena. It is especial lexicology and on developing the student's writing skills.  Czech for Intermediate Students Examination  It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04CES be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.  Czech for Foreign Students - Advanced Examination  the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of scienal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and St includes communication, with teachers and faculty administrators.  Czech for Foreigners - Advanced  Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and s emphasis on individual work.	ZK ty to apply their pic from the stud  Z Ident's vocabul  Z g skills and train  Z ly focused on s  ZK M1,2,3 courses  Z ean Framework nce. Students a tudent Life. Writ  Z pecialist texts p  Z nd, finally, prese  ZK SP1,2,3 courses  Z ritten and oral following general ar mizes and expanal statement, re	5 knowledge dent's field  1 ary for vario  1 ts the stude  1 tylistics and  4 and can or  1 of Reference taught the ten practice  1 lacing great  1 pentation of tentation of tentation of tentation of tentation of tentation defined langua quest, answere and technical indical great and quest, answere defined technical indications and technical quest, answere defined technical angua quest, and angua quest, answere defined technical angua quest, answere defined technical angua quest, answere defined technical angua quest, and angua quest.

04FM2	French for Intermediate Students M2	Z   1
	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text	• • • • • • • • • • • • • • • • • • • •
and scientific far	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	nce and technology, French
04FM3	French for Intermediate Students M3	Z 1
	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub	_
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class	
field of students' fu	ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work	compiled from French articles
and one	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	on and coherence.
04FMZK	French for Intermediate Students Examination	ZK 4
The content is the	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o	
0.4504	consists of a written and oral part and is organized according to Examination Instructions, a document available on the well	
04FP1	French for Advanced Students P1 ourse The objective of this three-semester course is to improve and further develop communication in the French language in both w	Z 1 1
	municate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit ger	
	lems. 04FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics	
subjonctif, passé o	composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of trans	sactional letters, CV, personal
statement, request	t, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture,	
	mathematics, internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interp	
04FP2	French for Advanced Students P2	Z   1
With the link to P1	contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on gi technical and scientific communication are stressed (passive voice, nominalization, word formation).	iven topics. Features typical of
04FP3	French for Advanded Students P3	Z 1
	refliction Advanded Stadents F3 sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in eng	
	of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover	, , ,
	topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.	
04FPZK	French for Intermediate Students Examination	ZK 5
The whole French	n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a	
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra	
04FZ1	French for Beginners Z1	Z   1
_	rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soci s French for specific / technical communication and reading of popular science and scientific texts. 04FZ1 The objective is to be able	- '
	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda	· 1
=	za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe	- I
giving the o	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and grammar.
04FZ2	French for Beginners Z2	Z   1
	ng up with 04FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the	
•	nners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic	
thanking, travelling	How does the machine work? A few expressions concerning the study. Name of University and Faculty.	bation. Opecine topics covered.
04FZ3	French for Beginners Z3	Z 1
	ipon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pr	avdová: French for Beginners.
Topics, functions	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info	ormation and loud as part of
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.	
04FZ4	French for Beginners Z4	Z   1
	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The co he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur	- · ·
	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping the course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping the course covers generals and specific topics:	• • • • • • • • • • • • • • • • • • • •
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet	·
04FZ5	French for Beginners Z5	Z 1
All four skills acquir	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr	-
_	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	· · · ·
notes, success	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate clauses, gerund, passive.	auses, typical conjunctions,
045771/		71/ 2
04FZZK The content is the	French for Beginners Examination examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination	ZK 3
	Instruction for examination. Its content covers the levels FZ1 - FZ5.	anon le raica sy alle accament
04NM1	German for Intermediate Students M1	Z 1
The objective of the	e course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st	ructures (e.g. the passive) and
	processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	
environmental iss	sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	·
04NM2	terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders  German for Intermediate Students M2	Z 1
	German for Intermediate Students M2   ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and design the computers and design of the control of the co	
	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic	-·
	phenomena important for professional discourse (participles, relative clauses).	
04NM3	German for Intermediate Students M2	Z 1
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	- · · · · · · · · · · · · · · · · · · ·
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and or information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemation	
practise reading for	phenomena important for professional discourse (participles, relative clauses).	oany revises outer grammauCal
	F	

04NMZK German for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination		
and oral, which cover the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asse is to be obtained from the teacher.	essment. More detailed	information
04NP1 German for Advanced Students P1	Z	1
This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be I	_	
course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for		~ I
more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	practical everyday com	nmunication,
i.e., telephoning.		
04NP2 German for Advanced Students P2	Z	1 1
The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extenvocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and		
both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive,		
04NP3 German for Advanced Students P3	Z	1
The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a	variety of less commor	situations
(traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the		
nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are us 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. T	-	
practice to and from German.	ne course also include	3 translation
04NPZK German for Advanced Students Examination	ZK	5
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	on consisting of two pa	
and oral, which cover the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 un	graded assessment. M	ore detailed
information is to be obtained from the teacher.		
04RM1 Russian for Intermediate Students M1	Z	andwritton)
The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask		
they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement		
contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the time	etable.	
04RM2 Russian for Intermediate Students M2	Z	1
The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted		
04RM3 Russian for Intermediate Students M3	Z	1 1
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, h in the timetable.	owever, for half of the	time allotted
04RMZK Russian for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the known of the study plan.		
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given		
04RP1 Russian for Advanced Students P1	Z	1
The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures,	oracticing more difficul	t grammar
structures, understanding the fundamentals of technical language and training writing skills.		
04RP2 Russian for Advanced Students P2 The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives)	Z	1 1
structures). Stress is put on independent oral and written communication.	s, verb aspects, specifi	c syritactic
04RP3 Russian for Advanced Students P3	Z	1
The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra	1	RP1 - RP3
courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).	•	
these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and special students are supported to the students of the students' specialization, oral and special special students are supported to the students of the students' specialization, oral and special	· · · · · · · · · · · · · · · · · · ·	
develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write technical topics.	accurately and with co	inidence on
04RPZK Russian for Intermediate Students Examination	ZK	5
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 known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and oral examination testing the known of the course is completed by taking a written and the course is considered by the course of	1	
- RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given	nstructions by the tead	cher.
04RZ1 Russian for Beginners Z1	Z	1
The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus	-	- 1
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal a short text with marked stress, understand its contents and summarize it.	king). Students will be	able to read
	Z	1
04RZ2   Russian for Beginners Z2 The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short s	1	lents will be
able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will		
master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use	it in writing.	
04RZ3 Russian for Beginners Z3	Z	1
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training and listed in a particular particular and introduced new growners. Studento will be trained to distinguish integration particular and introduced new growners. Studento will be trained to distinguish integration particular and includes further particular and includes further everyday topics.	-	- 1
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.	i be able to respond si	o as to be
04RZ4 Russian for Beginners Z4	Z	1
The course is based on 04RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer to	_	· ·
unfamiliar words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., i		- 1
patterns from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling,		
written communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographica fill in forms, look up the information from the timetable, learn about Russian holidays and typical meals.	aata (e.g., Siberia), le	earn how to
04RZ5 Russian for Beginners Z5	Z	1
The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understa	1	ı ' ummarizina
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C		- 1
information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. O	ommunication skills at	c trained on

everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 04RZZK Russian for Beginners Examination 3 The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ1 - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher. 04SM1 Spanish for Intermediate Students M1 The course is designed for students whose competence is at level B1 of CFFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. Spanish for Intermediate Students M3 04SM2 The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be able to work with specialized texts on the Internet. 04SM3 Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination Spanish for Intermediate Students Examination The course content is the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for the written part, students will have obtained non-graded assessment for course 04SM3. Oral examination follows the written part. 04SP1 Spanish for Advanced Students P1 Ζ 1 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CFFR 04SP2 Spanish for Advanced Students P2 Ζ Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. 04SP3 Spanish for Advanced Students P3 Ζ Course 04SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. 04SPZK Spanish for Advanced Students Examination 5 The course content is the examination as given by the study plan. Examination 04SPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is having passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student. 04SZ1 Spanish for Beginners Z1 1 Course 04SZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. Spanish for Beginners Students Z2 Course 04SZ2 is based on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis will be chosen so as to enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic. Realia of Spanish-speaking countries are also included. 04SZ3 Spanish for Beginners Z3 7 The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the Spanish-speaking countries, mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral communication on a given general topic, for which the student is trained by reading texts or listening to them. 04SZ4 Spanish for Beginners Z3 The course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish speaking countries, mainly of Spain. It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them. 04SZ5 Spanish for Beginners Z5 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination. 04S77K Spanish for Beginners Examination 3 The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination only if he/she has passed the written examination test. 11ANEL Linear Circuit Analysis Z,ZK The course is the introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially oriented to the understanding of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment. 11APLG Applications of Group Theory in Solid State Physics 7K 2 Consideration of atomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states there are and what interactions and transitions between them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information on the object that symmetry alone will provide. The application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environment, normal modes of molecular vibrations, and selection rules for optical absorption transitions. 11ELEA Z,ZK Instrumentation and Measurement 2 The course is the introduction to the instrumentation and measurement for physicists. 11MIK Z.ZK 4 Logical Circuits and Microprocessors The course is the introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and complex circuits like microprocessors. The microcomputer architecture and principles of interfacing is shown. 11SFBM Structure and Function of Biomolecules 7.7K 3 Knowledge of macromolecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of macromolecules, overall structure and its structure:function relationship including macromolecular complexes. 11UFPLN ZK Introduction to Solid State Physics The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.

11UVOD	Introduction to Specialization  The purpose of this lecture is to introduce the undergraduate students to the physical master degree study programmes.	Z	2
11ZFPL	Basic to Solid State Physics	KZ	2
	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	•	
energy bands ex	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	systematically intro	auce ana
12APL	Application of Lasers	Z,ZK	2
	plication of lasers in industrial technologies, medicine, remote sensing, energetics, telecommunication, military, entertainment and ot		_
12AUX	Administration of UNIX System	KZ	2
	Basic and more advanced administration of Unix operating system	'	
12BPFE1	Bachelor Thesis 1	Z	5
	Student works on the given topic according to the bachelor work submission for a period of 2 semesters.		
12BPFE2	Bachelor Thesis 2	Z	10
405004	Student works on the given topic according to the bachelor work submission for a period of 2 semesters.	KZ	
12EPR1	Basic Electronics Practicum 1 acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation		3 practicum
The aim of the pro	consists of blocks lasting 4 hours.	of the results. The	practicum
12EPR2	Basic Electronics Practicum 2	KZ	3
	acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation	of the results. The	practicum
	consists of blocks lasting 4 hours.		
12INS1	Information Systems 1	Z,ZK	2
	ogy, architecture of the databases, network databases, cloud application Google, Microsoft, information managament, aproaches to so		
12INS2	Information Systems 2	Z,ZK	. 2
Graduation of In	formation systems 1 is required. In more details: Information technology, architecture of the databases, network databases, cloud application information managament, approaches to solve task of information systems	plication Google, N	licrosoft,
12LAS	Laser Systems	Z,ZK	3
	e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. C		
	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. Submilimeter lasers. Lasers with high degree of coherence. Free electron la	asers.	
12LT1	Laser Technique 1	Z,ZK	3
	Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an app		
	ethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion non-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optica		erent and
12LT2	Laser Technique 2	Z,ZK	2
12612	Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking	2,21	2
12MOF	Molecular Physics	ZK	2
Basic i	deas on multi-atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure	re determination.	
12MPR1	Microprocessors 1	ZK	4
,	nd microcomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, indirect, indir	_	
memory, procedure	e calls, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroassem RISC processors - principles	ibler, programming	languages.
12MPR2	Microprocessors 2	ZK	2
	chitecture IA-32. Data types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assemble		2
12NME1	Numerical Methods 1	Z,ZK	4
	d the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me		f tasks very
important for physi	icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat	ional environment	MATLAB is
401.	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.	717	
12NT	Nanotechnology luce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physica	ZK	2
	gies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technolog		
	paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for heter		
growths will be disc	cussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric layer	preparation will be	mentioned
	as well as soldering and encasement.		
12OPEL	Optoelectronics	Z,ZK	2
Physics and techno	logy of optical fibre and p[lanar waveguides, fibre amplifiers and lasers. Photonic integration. Photonic crystals and plasmonics. Applica and sensors.	itions in optical con	nmunication
12PDR1	Data Communication and Interfaces 1	Z	2
121 DICI	Principles of computer networks, networks architectures and data transfer. Specification of existing network architectures.		2
12PDR2	Data Communication and Interfaces 2	Z	2
	Principles of Ethernet standards and basics of protocol suite TCP/IP.	<u> </u>	
12PIN1	Practical Informatics for Technics 1	Z	2
	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface		
	ing systems. Requirements on operating system for research and technical computing. Operating system UNIX. Basic principles, kernel, k		
	butes, working with files. Text editors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling proces viorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networ		-
1000 α ρ100633 μ	protocols TCP/IP. Network configuration of a computer. Network services: hardware sharing, mail, ftp, etc. Network application		JJOJ GIIG
12PIN2	Practical Informatics for Technics 2	Z	2
	three semester course of basics and applications of informatics for science and engineering included as obligatory alternative cours	se. Constituent par	
	in computer classrooms. The second part of the course is "Introduction to computer algebra systems?.		

12PIN3	Practical Informatics for Technics 3	Z	2
Practically oriented	If three semester course of basics and applications of informatics for science and engineering included as obligatory alternative course in computer classrooms. The third part of the course is "Introduction to scientific computing?.	e. Constituent part	t is realized
12POAL	Computer Algebra	KZ	2
	n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, s		
	derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subst		
algebraic programn	ning, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyr	na, Mathematica),	miniproject.
12PSEM	Problem Seminary	Z	2
	h topics from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and appli	cation of ionizating	
12PYTH	Scientific Programming in Python	Z	2
	rse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place	-	
	burse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude		
•	ng research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or		
greater part of th	e course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy	and the Matplotlib	graphics
	library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.		
12TAIS	Ion Beam Techniques and Applications.	ZK	3
	Production and forming of ion beam, charged particle optics, interaction of ion with solid matter, technological and analytical appli	cations.	
12ULAT	Introduction to Laser Technique	KZ	2
	omagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers;	laser safety preca	
	laser amplifier, Q-switching, mode-locking.		
12ULT	Introduction to Laser Technique	Z,ZK	3
Overview of elec	ctromagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase		cautions.
12UMF	Introduction to Modern Physics	Z	3
	ded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A	part of the course	is delivered
	in a computational laboratory.		
12VAK	Vacuum Physics and Technology	KZ	4
	basic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporation,		transport
through solid ma	tter; Vacuum generation. Pumping process. Pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping s	peed; gas flow, cor	nductivity,
_	searching for leaks. Materials and vacuum instalation parts. Practical exercises.	_	-
12VFT	High Frequency and Impulse Circuitry	Z.ZK	2
The goals of cou	se is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation s	solution, Gunn's dic	odes, high
	frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.		
12VTV	Scientific and Technical Computing	Z	2
The students get	familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their program	ming. The course i	s oriented
	mainly to programming in the Fortran language.		
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 geome	trical optics. The m	nain goal of
the lecture is to ob	otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respec	t to character of th	e bachelor
work. Particular top	ics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in	vacuum (including	polarization
**	ther from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next ii		
· · · · · · · · · · · · · · · · · · ·	it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference	•	
	ence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic	-	
	n. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit		geometrical
	proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical		
12ZDP	Data Processing for Publishing	Z	2
	uter computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language	,, ,,	
HTIVIL, XIVIL,, P	publishing into www pages, cloud computing,commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, PP	5, PP5X, RF1, XL	5, XLSX),
407514	multimedial presentations, multimedial formats.	7.71/	_
12ZEL1	Basic Electronics 1	Z,ZK	3
, ,	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	•	
12ZEL2	Basic Electronics 2		
	pasic Electroffics 2 ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	Z,ZK	3 cuite field
12ZELD	Fundamentals of Electrodynamics	Z,ZK	2
	derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory of re eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By expan		
	of solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with abs	· ·	
	c. Finally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by		
12ZFP	Principles of Plasma Physics	Z,ZK	4
	ph temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, line		
	electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and parame		-
	comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas ar		
12ZPLT	Basic Laser Technique Laboratory	KZ	6
	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic,		
	de pumped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acou		_
12ZPOP	Basic Optical Laboratory	KZ	6
	ne practical laboratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must b		
14ELMI	Electron Microscopy	Z,ZK	3
	students are introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles. The introd	'	_
	and electron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different ty		

mathematical formulations and tools used in microscopy and to the description of particular parts of the microscopes. In	
of contrast, and diffraction and imaging techniques are also covered. A particular attention is given to analytica	
14TEM   Engineering Mechanics	Z,ZK 6
Abstract: The course represents a link-up between the theoretical mechanics of rigid bodies and engineering discipline (elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and d	-
14TM   Engineering Mechanics The course represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines deal	Z,ZK 4
	KZ 4
14ZZKS   Testing and Processing of Metals and Alloys Abstract: Tension tests, hardness, impact toughness, technological testing, fatigue testing, creep testing. Light microsco	l l
Casting, forming, welding, soldering, brazing, powder metallurgy, mechanical machining. Copper alloys, aluminium alloy	
drawing and CAD.	s, maritain anoys, oposial anoys of flori forfode metals. Fosimisal
15CH1 General Chemistry 1	Z 3
The most important concepts, quantities and units used in chemistry are introduced in the course General Chemistry I	I I
solved in exercises.	
15CH2 General Chemistry 2	Z,ZK 3
The subject is the continuation of the course General chemistry I. The main attention is paid to general principles gove	1 ' 1
the validity of these principles is not restricted only to chemical processes is documented. The significance and practic	· · · · · · · · · · · · · · · · · ·
in exercises.	
15CHEM Analytical Calculations and Chemometry Principals	ZK 2
Lecture deals with basic principles of chemometry including errors in classical and instrumental analysis, probability t	
two-tailed significance testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods.	ods, non-parametric testing, seminar part consists of equation
solving, titration stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry.	pH calculations, calculations in potentiometry, coulometry,
spectrophotometry and separation methods, solving of complex form	ng equilibria.
15DALCH History of Alchemy and Chemistry	ZK   2
This course provides the overview of crafts with chemical and/or metallurgical basis. Development of alchemy from an	cient times in China, India, and Hellenistic world is discussed.
The last part of course is dedicated to Alchemy in Arabic world and various aspects of alchemy in Latin Europe. The	influence of alchemical approaches development onto crafts
advancement is illustrated.	
15INPR Laboratory Practice in Instrumental Methods	KZ   4
Practical training of students in the use of selected modern instrumental methods and techniques for solving some pl	
carried out in the laboratories of Czech Academy of Sciences (Institute of Physical Chemistry) and partly in	
15ZKJE   Nuclear Power Plants Design and Operation	ZK   3
Target of lecture is to create basic knowledge of physics of nuclear reactors utilizing fission. Further explains arrangement	
of core. Function and construction of all components are defined wit regard to nuclear physics, physics of shielding, the	
dosimetry. Creates knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability a environment and to strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation	
high level nuclear waste and spent fuel and their managem	
16AMMB Fundamentals of Analytical Measurement Methods	
Basic principles, technical performance and utilization of methods of chemical analysis. Basic methodology of analytic	l l
polarography, refractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrare	
magnetic and electron spin resonance, mass spectrometry, thermometric methods, g	
16APLB Application of Ionizing Radiation in Analytical Method	ls ZK 5
Subject The application of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of r	
of technological processes.	
16EPAM Exact Methods in Research of Historic Monuments	ZK 2
Aims and methods of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence a	nd related methods, further radiation methods, dendrochronology,
archaeomagnetism), analytical methods for determination of origin and production technologies of artefacts (activati	on analysis, X-ray fluorescence analysis and other methods),
photogrammetry.	
16FNZB Problems of Non-ionizing Radiation	ZK   2
Subject is focused on biological effects of non-ionizing radiation and its use in physical praxis. Information about princ	ples, biological effects and methods used in fields of magnetic
resonance and ultrasound as applied in various types of technical or medical equ	ipment are given as well.
16KPR Clinical Propaedeutic	ZK   2
Making students familiar with the basics of anamnesis, physical examination, examinational methods of different organs	, hematological and biochemical examinations and anaesthesia
16MCRB Transport of Ionizing Radiation and Monte Carlo Meth	od Z,ZK 4
Introduction to principles of Monte Carlo method and its use for radiation transport simulation, selected concepts of pr	
interaction of different types of radiation and their use for stochastic modeling of their substance transport. Model descriptions of their substance transport.	
methods, and modeling of measured variables and parameters. Statistical evaluation of reliability of modeling results, va	· -
transport modeling, MCNP program, its possibilities and use. Procedures for the practical use of the program for typical	
detection and detection systems, radiation protection and medical	
16MEZB Fundamentals of Ionizing-Radiation Metrology	Z,ZK   4
The course summarizes the basic objectives and content of ionizing radiation metrology. It deals with the interpretation theoretical and experimental foundations of metrology, the determination of basic parameters of radiation. Lectures are	
regulations.	s supplemented with basic summary of relevant legislation and
16SED1 Dosimetry Seminar 1	Z 2
The seminary is supposed to motivate the student's interest in the field of dosimetry, especially in medical physics. Introduced in the field of dosimetry, especially in medical physics.	l l
a bachelor's thesis. The following lectures are given by the former students of DDAIR, who are currently employed in v	, , , , , , , , , , , , , , , , , , , ,
MI, Hospital Na Homolce, FN v Motole, PTC Czech s.r.o	-
16SED2 Dosimetry Seminar 2	Z 2
Dosimetry Seminary 2 follows-up SED1. In this seminary students will listen to the lectures of the older students of DD/	1 4 1 4
research topic of their theses. The course also introduces the principles of creating good presentation	IR. The older students give lectures about their progress on the
research topic of their theses. The course also introduces the philopies of creating good presentation	-
	and advice for working with scientific literature.
16UAZB Principles of Ionizing-Radiation Applications Historical outline of applications, review of interaction of radiation with a matter, radiation sources, detectors and inst	and advice for working with scientific literature.  ZK 2
16UAZB Principles of Ionizing-Radiation Applications	and advice for working with scientific literature.  ZK 2  umentation, evaluation of radionuclide measurements, use of

16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1	Z,ZK	4
Organization of liv	ving systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular	genetics. Cell cyc	le, mitosis,
their regulation. G	eneral human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system a	nd its physiology. I	Respiratory
	system and physiology of respiration. Excretory and genital tract.		
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK	4
Heart and physiol	logy of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood	clotting. Overview	of nerves.
CNS	5. Visual system and physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, en	docrine glands.	
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
	oment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniz		1
,, <sub>1</sub>	absorption. Fundamentals of the effects of ionizing radiation.	3,	
16ZDOZ2	Fundamentals of Radiation Dosimetry 2	ZK	2
	iological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles		1
	in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure.		
16ZEDB	Basics of Experimantal Data Processing	ZK	2
TOZEDO	Statistical analysis of experimental data; univariate data; calibration; regression; multivariate data.	_ ZIX	' -
167I\/D		KZ	2
16ZIVB	Introduction to Ecology		1
The subject inform	about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the enviro	nment and evalua	te economic
407 ITD	indicators and sustainable development.	71/	
16ZJTB	Nuclear Energy Facilities and Accelerators	ZK	2
	nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im		
high-voltage acce	elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons,	electron and ion s	ources for
	accelerators, targets.	_	
16ZPSP	Basic Work with PC	Z	2
	rse is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is devot		· .
	e at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text editor,		
	ercises in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bachelor's	=	
specific practice (he	ospitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and secui	ity. Completion of i	independent
	home exercises and participation in exercises above 60% is a necessary condition for passing the course.		,
16ZRAO	Basics of Radiation Protection	Z	2
	rse is to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and co	-	
orientation in this f	ield. The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how it	is dangerous for p	eople, what
is the meanir	ng of protective units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not requ	ire any prior know	ledge.
17ENF	Experimental Neutron Physics	KZ	2
The lectures are	mainly focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, propi	erties of prompt an	d delayed
neutrons, neutron	detection methods, neutron induced nuclear reactions, modification and adjustment of neutron field, science and industry neutron a	oplications. Last le	cture deals
with experimental d	lata processing and analysis. The lectures are supplemented with experimental practices in the field of neutron detection, determination	of delayed neutror	n properties,
study of neutron dif	fusion in various materials, preparation and characterisation of photo-neutron source and neutron source calibration. Experimental prac	ctices will be runnir	ng at training
	reactor VR-1 and in the neutron laboratory.		
17JARE	Nuclear Reactors	ZK	2
Introduction. World	power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety system	ns, containment. C	lassification
of reactors into IV g	generations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. Pres	surized water read	tors (PWR).
	PWR (Westinghouse, KWU, Framatom). VVER-type reactors , Temelín nuclear power plant. Boiling water reactors. Heavy water react		
high-temperature	gas cooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF and	INPRO initiatives.	Evaluation
and	selection of proposed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in lo	ng-term outlook	
17UINZ	Introduction to Engineering	Z,ZK	3
The course is deve	oted to an introduction to the engineering profession. Students will gradually learn the characteristics and specialties of engineering v	vork, including an	overview of
the basics of selec	cted engineering disciplines, such as the basics of materials science, manufacturing technology, quality control and assurance and ed	ology. Further, the	course will
	focus on some issues of R&D activities organization and on selected parts of technical drawings and the work with AutoCAI	O code.	
17VYR	Research Reactors	ZK	2
	it or research reactors and their applications for the need of research and industry. Students get familiar with research reactor types and		1
	th experimental equipment needed for particular applications and their specifics. The course is supported by technical visit to researc		
17ZEH	Basics of Economic Assessment	ZK	2
	ises on the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and the		
	ectures continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc. an	=	
	energy resources evaluation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operation		
17ZEL	Basics of Electronics	KZ	3
	asic information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and so		
=	s deal with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor components		
	res continue with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/dig	•	` ,
and thats). Lecte	completed with electronic laboratory exercises.	gital conventers. Le	ciales are
1051/01		7 71/	
18EKO1	Mathematical Economics 1 ces selected models and methods for economic decision making. The main attention is given to optimization models of linear program	Z,ZK	5 of their real
The course introdu		iriirig, possibilities	or their real
4051/00	applications and their solving by means of the current software products.	7 711	
18EKO2	Mathematical Economics 2	Z,ZK	5
The course intro	duces selected models and methods for economic decision making. The main attention is given to optimization models in graphs, pro	ject management,	inventory
	management with deterministic and stochastic demand, queuing theory and simulation models.		
18ESPG1	European Computer Driving Licence 1	Z	2
	lators are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introduced		
office tools. The a	ccent is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language v	vill be introduced a	and macros
	and user functions will be addressed.		

18ESPG2	European Computer Driving Licence 2	Z	2
Spreadsheet calculat	ors are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the	winter semester v	vith advance
VBA programming	opics (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemati	ics, operational re	search, and
	computer science.		
18INTA	Development of internet applications	KZ	4
	an overview of modern technologies for the development of web applications. Students will learn basic web languages and concep	1	etc.) and the
-	d to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest		
4.00 00 04400	is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Ja		
18MAK1	Macroeconomics 1	Z,ZK	4
			I
	provides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomy		-
	ibrium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic ma		
3-AD and their impi	cations for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phenor	nena and their inte	erconnection
4014140	and subsequently to use them under the conditions of modern economic life.	7.71	
18MAK2	Macroeconomics 2	Z,ZK	4
	extends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroe	•	
	specially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to n		
nodeling, i.e., macro	economic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provides st	udents with mode	rn knowledg
	of labor market modeling.		
18MIK1	Microeconomics 1	Z,ZK	5
licroeconomics is a	set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. Micro	peconomics expla	ins the role
prices and markets	in these processes, and makes more clear behaviour of the economic agents. This course of Microeconomics I consist of introdu	ction in Microecor	nomics and
	Consumer Theory.		
18MIK2	Microeconomics 2	Z,ZK	5
	set of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microeconomic	1 '	1
	his process and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Inc	•	•
18MPT	Programming in MATLAB	KZ	5
- 1	ts students with various programming techniques in the Matlab environment. The emphasis is placed on the differences in program	1	-
The subject acquain	compared to classical languages.	mining methodolo	gy III Maliau
401471		7 71/	
18MTL	Programming in MATLAB	Z,ZK	5
ntroducing Matlab e	nvironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy		
		ysis, statistics, alg	orithmizatio
	and geometric representation of results.	_	orithmization
18PAS	Pascal Programming	Z	orithmization 4
		Z	4
	Pascal Programming	Z	4
	Pascal Programming anded mainly for students, with little or no experience in programming. It familiarizes the students with the basic concepts in program.	Z	4
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For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2024-05-19, time 11:44.

TV-4

Physical education

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