### Study plan

# Name of study plan: BS Matematické inženýrství - Aplikované matematicko-stochastické metody

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: 91

Elective courses credits: 89 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: 91

The role of the block: PO

Code of the group: BSMIAMSMPP1

Name of the group: BSMIAMSM - 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:

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 Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.)	Z,ZK	6	4+2	L	РО
02MECH	Mechanics Iskender Yalcinkaya, David Be Michal Jex David Be (Gar.)	Z	4	4+2	Z	РО
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David B e , Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David B e (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	PO

#### Characteristics of the courses of this group of Study Plan: Code=BSMIAMSMPP1 Name=BSMIAMSM - povinné p edm ty 1. ro ník

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 p	hilosophers, Aristo	otle. Physics in
	chimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galile nce. Newton and his work.	o, Huygens. The b	irth of physics
· · · · · · · · · · · · · · · · · · ·		7 714	
02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Cou	omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, c	onductivity. Basics	of the relativity
theory. Electrodynam	ic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,Maxwell e	quations	
02MECH	Mechanics	Z	4
ntroduction to physic	s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimen	sional equations o	of motion, motion
in central force field,	forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bo	ody, rotation. Fund	amentals of
continuum mechanic	s, elasticity, hydrodynamics. Sound.		
02MECHZ	Mechanics - Examination	ZK	2
The content of the su	bject is the examination according to the plan of studies.		
00PT	Preparatory Week	7	2

02TER 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

a dipartition theorem.

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: BSMIAMSMPP2

Name of the group: BSMIAMSM - 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	PO
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PO
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=BSMIAMSMPP2 Name=BSMIAMSM - povinné p edm ty 2. ro ník

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

02TEF2 Theoretical Physics 2

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

7 7K

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: BSMIAMSMPP3

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

Requirement credits in the group: In this group you have to gain at least 49 credits

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

Credits in the group: 49

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
01ALG	Algebra Pavel Š oví ek	ZK	4	4+0	Z	РО
01BPAM1	Bachelor Thesis 1 Pavel Strachota, Václav K s Pavel Strachota Pavel Strachota (Gar.)	Z	5	0+5		РО
01BPAM2	Bachelor Thesis 2 Pavel Strachota Pavel Strachota (Gar.)	Z	10	0+10		РО
18EKONS	Econometrics	Z,ZK	5	2+2	L	РО
01MAPR	Markov processes Jan Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	4	2+2		РО
01MAS	Mathematical Statistics  Václav K s Václav K s Václav K s (Gar.)	ZK	3	2+0		РО
01MCS	Mathematics for Particle Systems Milan Krbálek Milan Krbálek (Gar.)	KZ	3	2+1		РО

01MIP	Measure and Probability Václav K s, Tomáš Hobza Tomáš Hobza Václav K s (Gar.)	Z,ZK	6	4+2		PO
01NME2	Numerical Methods 2 Michal Beneš Michal Beneš (Gar.)	KZ	2	2+0	L	PO
01POPR	Advanced Probability Tomáš Hobza	Z	2	2+0		PO
01PRA1	Probability and Mathematical Statistics 1  Václav K s	Z,ZK	6	4+2	Z	PO
01PRA2	Probability and Mathematical Statistics 2  Václav K s	ZK	2	2+0	L	PO
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	PO
18MTL	Programming in MATLAB	Z,ZK	5	2+2	Z	PO
18MPT	Programming in MATLAB	KZ	5	0+4	Z	PO
01RMF	The Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	6	4+2	Z	PO
01BSEM	Bachelor Seminar Pavel Strachota Pavel Strachota (Gar.)	Z	2	0+2	L	PO
01SME	Statistical methods with applications Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	KZ	2	2+0		РО
01SM	Statistical Methods with Applications Tomáš Hobza	ZK	2	2+0	Ĺ	РО

Characteristics of the courses of this group of Study Plan: Code=BSMIAMSMPP3 Name=BSMIAMSM - povinné p edm ty 3. ro ník 01ALG Algebra After an introduction into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolean algebras, rings of polynomials over commutative fields. 01BPAM1 Z 5 **Bachelor Thesis 1** Bachelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under preparation. 01BPAM2 **Bachelor Thesis 2** Ζ 10 Bachelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under preparation. 18EKONS Z,ZK **Econometrics** 5 Econometrics is based on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data from economic reality. The course covers basic instruments of econometric analysis as the basic econometric model, the generalized model and the system of simultaneous equations and instruments for econometric model verification. 01MAPR Z,ZK Markov processes 4 01MAS **Mathematical Statistics** ZK 3 The subject is devoted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statistical models, finding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for hypothesis testing using the Neyman-Pearson lemma and likelihood ratio, confidence intervals and non-parametric density estimation. 01MCS ΚZ Mathematics for Particle Systems 3 Keywords: Asymptotic Expansions, Balanced Distributions, Dyson gases, Particle Chain, Statistical Rigidity, Nonlinear PDE 01MIP Measure and Probability Z,ZK 6 The subject is devoted to the introduction to Theory of probability on measure-theoretic level for discrete models, continuous distributions and general distributions of random variables. We deal with the examples of distributions including multi-dimensional Gaussian distribution and their properties. Further the (non)+integral characteristics of random variables (E, Var,...), convergence modes (Lp, P, a.s., D) and variants of limit theorems are derived (LLN, CLT). 01NME2 Numerical Methods 2 2 The course is devoted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. It explains methods converting boundary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equations 01POPR Advanced Probability Ζ The subject is devoted to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We deal with sample and integral characteristics of random variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parametric and nonparametric cases. 01PRA1 Probability and Mathematical Statistics 1 Z.ZK 6 The subject is devoted to the introduction to Theory of probability and statistics on measure-theoretic level for discrete models, continuous distributions and general distributions of random variables. We deal with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This knowledge is further applied to the statistical processing of observations and statistical parametric model estimation. 01PRA2 Probability and Mathematical Statistics 2 ZK 2 The subject is devoted to the statistical techniques for estimation and testing within parametric and nonparametric models such as Maximum likelihood principle, Uniformly most powerful tests, Goodness of fitness tests of models, confidence regions, etc. We focus on real practical applications of these statistical techniques in frame of the specific examples. Probability and Statistics It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and continuing till the Kolmogorov definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit theorems are stated and proved. On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explained. 5 18MTL Programming in MATLAB Introducing Matlab environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis, statistics, algorithmization and geometric representation of results. 18MPT Programming in MATLAB 5 The subject acquaints students with various programming techniques in the Matlab environment. The emphasis is placed on the differences in programming methodology in Matlab compared to classical languages Z,ZK 01RMF The Equations of Mathematical Physics 6 The subject of this course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral transformations, and solution of

partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).

01BSEM	Bachelor Seminar	Z	2
Bachelor seminar -	echnical details of bachelor thesis, format and processing, prerequisities, individual student presentations of their research resu	ilts.	
01SME	Statistical methods with applications	KZ	2
The course consists	of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric	methods, continge	ency tables,
simulation of randor	n variables and their application. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete exar	mples by use of st	atistical software
are also included.			
01SM	Statistical Methods with Applications	ZK	2
The course consists	of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric	methods, continge	ency tables,
simulation of randor	n variables and their application. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete exar	mples by use of st	atistical software
are also included			

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

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

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

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

00EKOT	Economy in Technology	Z	1
The course introduces t	he 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 nonvert	oal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	n integral part of th	ne course.
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 (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 (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 conta	ains introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytica	lly, basics of the existence the	eory, solution o
linear types of eq	quations 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 de	evoted to the theory of linear operators on vector spaces (mainly equipped with scalar product). In the same time we intro	duce the corresponding matri	ix theory.
01LALB	Linear Algebra B 1, Examination	ZK	3
01LAB2	Linear Algebra B2	Z,ZK	4
The subject sumi	marizes 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 geo	metry.
01LAP	Linear Algebra Plus	Z,ZK	5
The subject sumi	marizes the most important notions and theorems related to the study of vector spaces.	, ,	
01LA1	Linear Algebra 1	Z	1
The subject sumi	marizes the most important notions and theorems related to the study of vector spaces.		
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2	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	Z	2
The subject sum	marizes the most important notions and theorems related to the study of vector spaces.		
01LAZ	Linear Algebra 1, Examination	ZK	2
The content of th	is subject is the exam in Linear Algebra 1.		
01MANA	Calculus A 1, Examination	ZK	6
Examination of k	nowledge about stuff lectured in the 01MAN course.		
01MAA2	Calculus A2	Z,ZK	10
The subject is de	evoted mainly to the integral calculus of the real functions with one real variable and to the theory of the number series an	nd the power series.	
01MAA3	Calculus A3	Z,ZK	10
Function sequen	ces and series, foundation of topology, and differential calculus of several variables.	, ,	
01MAA4	Calculus A4	Z,ZK	10
Integration of fun	ctions of several variables, measure theory, foundation of differential and integral calculus on manifolds and complex ana	lysis.	
01MANB	Calculus B 1, Examination	ZK	4
Examination of k	nowledge about stuff lectured in the 01MAN course.		

01MAB2	Calculus B2	Z,ZK	7
Basic calculus (re	real analysis, indefinite and definite integrals and series).	1 '	
01MAB3	Calculus B3	Z,ZK	7
The course is dev	voted to functional sequences and series, theory of ordinary differential equations, theory of quadratic form	ms and surfaces, and general theory of metric's	spaces, norme
and prehilbert?s	spaces.		
01MAB4	Calculus B4	Z,ZK	7
The course is dev	evoted properties of functions of several variables, differential and integral calculus. Furthermore, the mea	asure theory and theory of Lebesgue integral is	s studied.
01MAP	Calculus Plus	ZK	6
01MA1	Calculus 1	Z	4
Basic course of re	real analysis (functions of one real variable, differential calculus).	,	
01MAN	Calculus 1	Z	4
Basic calculus (re	eal analysis, functions of one real variable, differential calculus).	'	
01MAZ	Calculus 1, Examination	ZK	4
01NUM1	Numerical Mathematics 1	Z,ZK	4
The course introd	duces to numerical methods for solving the basic problems arising from technical and research problems	s. The accent is put on a good understanding c	of the root of
theoretical metho	ods.		
12NME1	Numerical Methods 1	Z,ZK	4
There are explain	ned the basic principles of numerical mathematics important for numerical solving of problems important	for physics and technology. Methods for solution	on of tasks ver
important for phys	sicists (ordinary differential equations, random numbers) are included in addition to the basic numerical	methods. Integrated computational environme	ent MATLAB is
used as a principl	ole programming language as a demonstration tool. The seminars are held in computer laboratory.		
01VYMA	Selected Topics in Mathematics	Z,ZK	4
Fourier series: con	omplete orthogonal systems, expansion of functions into Fourier series, trigonometric Fourier series and the	heir convergence. Complex analysis: derivative	of holomorphi
functions, integral	al. 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 (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.)	ZK	3		L	PV

Characteristics of the courses of this group of Study Plan: Code=BSJAZYKY Name=BS - languages

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 04AM3 courses and consists of two parts - written (100 min) and

oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses.

)4APZK	English for Advanced Students Examination	ZK	5
	s the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the		-
	04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation		•
tudy.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
4CESMZK	Czech for Intermediate Students Examination	ZK	4
	the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the		•
	isful completion of the 3 courses. Detailed information is to be obtained from the teacher.	0+0L0W1,2,0 00010	ics and can on
4CESPZK	Czech for Foreign Students - Advanced Examination	ZK	5
	Ozecti for Foreign Students - Advanced Examination the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the		_
	isful completion of the 3 courses. Detailed information is to be obtained from the teacher.	04CLSF 1,2,3 Cours	es and can on
		71/	
4FMZK	French for Intermediate Students Examination	ZK	4
	amination as given by the study programme. The whole French programme is ended with an examination covering the conter	nts of FIVIT-FIVI3. The	e examination
	and oral part and is organized according to Examination Instructions, a document available on the web.	716	
4FPZK	French for Intermediate Students Examination	ZK	5
•	ogram is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral p	part and is organized	d according to
	ons, a document available on the web. Assessment of the presentation is included into the examination grading.		
4FZZK	French for Beginners Examination	ZK	3
	amination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The $arphi$	xamination is ruled b	y the docume
struction for examir	ation. Its content covers the levels FZ1 - FZ5.		
4NMZK	German for Intermediate Students Examination	ZK	4
he course content is	the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination	ation consisting of tw	vo parts - writte
	the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 as	sessment. More det	ailed informatio
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Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

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:

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
12AUX	Administration of UNIX System 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 Zuzana Masáková (Gar.)	Z,ZK	6	4+1		V
11ANEL	Linear Circuit Analysis Pavel Jiroušek Pavel Jiroušek (Gar.)	Z,ZK	4	4	Z	٧

15CHEM	Analytical Calculations and Chemometry Principals  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 Ionizing 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 (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 Vladimír Karpenko Vladimír Karpenko (Gar.)	ZK	2	2+0	Z	V
02DEF1	History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	L	V
01DEM	History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
02DRG	Differential Equations, Symmetries and Groups Libor Šnobl 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.)	Z	2	2P+0C	L	V
01DIM3	Discrete Mathematics 3 Lubomíra Dvo áková	Z	2	2+0	Z	V
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
12EGS1	English Graduate Standard 1	KZ	4	0+4	L	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 (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  V ra Šlechtová	Z	1	0+2	L	V
04FM3	French for Intermediate Students M3  V ra Šlechtová (Gar.)	Z	1	0+2	Z	V

04FP2	rench for Advanced Students P1  Michal Beneš  rench for Advanced Students P2  V ra Šlechtová	Z	1	0+2	Z	V
04FP3 Fr. V		7				
04FF3 V	v ra Siecinova	Z	1	0+2	L	V
04FZ1 Fro	rench for Advanded Students P3	Z	1	0+2	Z	V
· · = ·   V	rench for Beginners Z1 V ra Šlechtová	Z	1	0+4	L	V
04F72 Fr	rench for Beginners Z2	Z	1	0+4	Z	V
04F73 Fro	rench for Beginners Z3	Z	1	0+4	L	V
04F74 Fre	rench for Beginners Z4 / ra Šlechtová (Gar.)	Z	1	0+4	Z	V
04EZ5 Fro	rench for Beginners Z5	Z	1	0+4	L	V
O1EKP Fu	V ra Šlechtová V ra Šlechtová (Gar.) unctions of Complex Variable	ZK	2	2+0	Z	V
01FKPB Fu	everin Pošta, Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)  unctions of Complex Variable B	Z	2	2+0	Z	V
Pi O1FΔN1 Fu	Pavel Š oví ek unctional Analysis 1	Z,ZK	4	2+2	_	V
Pau	avel Š oví ek Pavěl Š oví ek Pavel Š oví ek (Gar.) unctional Analysis 1	Z,ZK	3	2+1	Z	V
Pi	Pavel Š oví ek unctional Analysis 2	·				-
Pau	avel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)  xperimental Laboratory 1	Z,ZK	4	2+2	L	V
02PRA1   <i>Lib</i>	bor Škoda, Katarína K ížková Gajdošová, Barbara Antonina Trzeciak, Jaroslav iel ík <b>Jaroslav Biel ík</b> Jaroslav Biel ík (Gar.)	KZ	6	0+4	Z	V
02PRA2 Ex	xperimental Laboratory 2 bor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	V
	hysical Seminar 1 Vojt ch Svoboda (Gar.)	Z	2	0+2	Z	V
	hysical Seminar 2 Jan epila	Z	2	0+2	L	V
01CTDD Ge	eometric Theory of Ordinary Differential Equations ichal Beneš Michal Beneš Michal Beneš (Gar.)	Z	2	0+2	Z	V
	formation Systems 1	Z,ZK	2	2	Z	V
	nformation Systems 2 Antonín Novotný	Z,ZK	2	2	L	V
	uclear Energy Facilities and Accelerators amil Augsten, Tomáš echák <b>Kamil Augsten</b> Tomáš echák (Gar.)	ZK	2	2+0	Z	V
17.IARE Nu	uclear Reactors vmáš Bílý Tomáš Bílý Tomáš Bílý (Gar.)	ZK	2	2	L	V
01 IEDR Sii	imple Compilers den k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	2	L	V
16KPR Cli	linical Propaedeutic na Votrubová <b>Jana Votrubová</b> Jana Votrubová (Gar.)	ZK	2	2+0	Z	V
04AKS En	nglish Conversation  Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
OOKE QL	uantum Physics lip Petrásek Libor Šnobl (Gar.)	Z,ZK	3	2P+1C	Z	V
03LCE1 <b>Ex</b>	xperimental Laboratory 1  Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	0+2	Z	V
02LCE2 Ex	xperimental Laboratory 2  Jaroslav Biel ik Jaroslav Biel ik (Gar.)	Z	2	0+2	L	V
12LT1 La	aser Technique 1 áclav Kube ek Václav Kube ek (Gar.)	Z,ZK	3	2+1	Z	V
12LT2 La	aser Technique 2 Helena Jelínková	Z,ZK	2	2+0	L	V
12LAS La	aser Systems áclav Kube ek Václav Kube ek Václav Kube ek (Gar.)	Z,ZK	3	2+1	L	V
01LIP Lir	inear Programming  on Volec estmír Burdík Jan Volec (Gar.)	Z,ZK	3	2+1	Z	V
18ΜΔΚ1 Μα	lacroeconomics 1 uang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	L	V
18MAK2 Ma	lacroeconomics 2 uang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2+2	Z	V
O1MAPR Ma	larkov processes an Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	4	2+2		V
	lathematical Economics 1	Z,ZK	5	2+2	Z	V
	lathematical Economics 2	Z,ZK	5	2+2	L	V
01MASC Ma	lathematical Statistics - Seminar  omáš Hobza Tomáš Hobza (Gar.)		2	0+2		V

00MAM1	Essentials of High School Course 1  David Be	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 Š ovi ek	Z,ZK	6	4+2	L	V
18MIK1	Microeconomics 1	Z,ZK	5	2P+2C	Z	V
18MIK2	Quang Van Tran Quang Van Tran (Gar.)  Microeconomics 2	Z,ZK	5	2P+2C	L	V
11MIK	Quang Van Tran Quang Van Tran (Gar.)  Logical Circuits and Microprocessors	Z,ZK	4	4	L	V
12MPR1	Pavel Jiroušek, Petr Levinský Pavel Jiroušek Pavel Jiroušek (Gar.)  Microprocessors 1	ZK	4	4+0	Z	V
	Miroslav ech Miroslav ech Miroslav ech (Gar.)  Microprocessors 2					-
12MPR2	Miroslav ech Miroslav ech (Gar.)	ZK	2	2+0	L	V
12MOF	Molecular Physics Jan Proška, Martin Michl Martin Michl Jan Proška (Gar.)	ZK	2	2+0	L	V
12NT	Nanotechnology Jan Proška, Eduard Hulicius 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	Z	3	2+1	Z	V
15CH2	Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)  General Chemistry 2  Ond ej Holas, Petr Distler Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
02OR	Ond ej Holas, Petr Distler, Václav uba <b>Petr Distler</b> Petr Distler (Gar.) <b>General Relativity</b> Old ich Semerák <b>Boris Tomášik</b> 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	Z	2	2+0		V
12PEL1	Practical Electronics 1	Z,ZK	2	2+0	L	V
12PEL2	Practical Electronics 2	Z,ZK	2	2+0	Z	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	Z	2	1+1	Z	V
12PIN3	Milan Ši or Milan Ši or Milan Ši or (Gar.)  Practical Informatics for Technics 3  Milan Ši or Milan Ši or (Car.)	Z	2	1+1	L	V
15INPR	Milan Ši or Milan Ši or Milan Ši or (Gar.)  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	Václav K s Probability and Mathematical Statistics 2	ZK	2	2+0	L	V
	Václav K s Probability and Statistics					-
01PRST	Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)  Probability and Statistics B	Z,ZK	4	3+1	Z	V
01PRSTB	Tomáš Hobza <b>Tomáš Hobza</b> Tomáš Hobza (Gar.)	KZ	4	3+1	Z	V

16UAZB	Principles of Ionizing-Radiation Applications  Ladislav Musilek Kamil Augsten Ladislav Musilek (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
01PROP	Programmer's Practicum Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	0+2	Z	V
01PERI	Programming of Peripherals Devices Zden k ulík Zden k ulík (Gar.)	Z	2	2+0	Z	V
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 <b>Miroslav Virius</b> 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 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 Zhanna Isaeva (Gar.)	Z	1	0+4	Z	V
04RZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	1	0+4	L	V
01RSWP	Project Management of Software Projects	KZ	2	0+2	Z	V
02SMF	Seminar of Mathematical Physics  Ladislav Hlavatý (Gar.)	Z	2	0+2	Z	V
01SSM1	Seminar of Contemporary Mathematics 1  Mat j Tušek Edita Pelantová (Gar.)	Z	2	0+2	Z	V
01SSM2	Seminar of Contemporary Mathematics 2  Václav Klika	Z	2	0+2	L	V
16SED1	Dosimetry Seminar 1 Kate ina Pila ová Kate ina Pila ová (Gar.)	Z	2	0+2		V
16SED2	Dosimetry Seminar 2 Kate ina Pila ová	Z	2	0+2		V
01SMB1	Seminar on Calculus B1 Milan Krbálek	Z	2	0+2	Z	V
01SMB2	Seminar on Calculus B2  Milan Krbálek	Z	2	0+2	L	V
01SOS1	Software Seminar 1 Zden k ulik Zden k ulik (Gar.)	Z	2	0+2	Z	V

01SOS2	Software Seminar 2	Z	2	0+2	L	V
02SPRA1	Zden k ulík Zden k ulík Zden k ulík (Gar.)  Special Practicum 1	KZ	6	0+4	 	V
	Lukáš Novotný, Jan epila <b>Jan epila</b> Jan epila (Gar.)  Special Practicum 2				_	-
02SPRA2	Jan epila <b>Jan epila</b> Jan epila (Gar.)	KZ	6	0+4	L	V
01STR	Statistical Decision Theory  Václav K s Václav K s Václav K s (Gar.)	ZK	2	2+0	L	V
11SFBM	Structure and Function of Biomolecules Petr Kolenko, Tomáš Kova Petr Kolenko Petr Kolenko (Gar.)	Z,ZK	3	2+1	Z	V
04SM1	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	Z	1	0+4	L	V
04SZ4	Beatriz Vadillo Gonzalo (Gar.)  Spanish for Beginners Z3	Z	1	0+4	Z	V
	Beatriz Vadillo Gonzalo (Gar.)  Spanish for Beginners Z5		· ·			•
04SZ5	<b>Beatriz Vadillo Gonzalo</b> 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 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	Z,ZK	4	2+2	L	V
02TSFA	Filip Petrásek Petr Novotný Petr Jizba (Gar.)  Thermodynamics and Statistical Physics	Z,ZK	4	2+2		V
	Igor Jex, Jároslav Novotný <b>Antonín Hoskovéc</b> Igor Jex (Gar.)  Topology					
01TOP	estmír Burdík 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	<b>Development of internet applications</b> Jakub Klinkovský, Dana Majerová <b>Dana Majerová</b> 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 <b>Hana Pr šov</b> á 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	٧
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	Z	2	1+1	L	V
12ULT	Jan epila Introduction to Laser Technique	Z,ZK	3	2+1	Z	V
12UMF	Introduction to Modern Physics	Z	3	2+1	L	V
	Jan Pšikal Jan Pšikal Jan Pšikal (Gar.) Introduction into Object Oriented Architecture					
18UOA	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 <b>Jana Ková</b> ová	Z	1	0+2		٧
01UTIZ	Introduction to Theoretical Informatics Petr Ambrož	ZK	2	2+0		V
11UVOD	Introduction to Specialization Ivo Kraus	Z	2	0+2	Z	V
12VAK	Vacuum Physics and Technology Richard Švejkar 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	KZ	6	0+4	L	V
12ZPOP	Václav Kube ek, Josef Blažej Josef Blažej Václav Kube ek (Gar.)  Basic Optical Laboratory	KZ	6	0+4		V
18ZALG	Alexandr Jan árek Alexandr Jan árek Alexandr Jan árek (Gar.)  Basics of Algorithmization  Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Zuzana Pet í ková,	Z,ZK	4	2+2	L	V
16AMMB	František Gašpar Vladimír Jarý Miroslav Virius (Gar.)  Fundamentals of Analytical Measurement Methods	ZK	2	2+0	L	V
To, amin	Hana Pr šová Hana Pr šová Hana Pr šová (Gar.)  Fundamentals of Human Biology, Anatomy and Physiology		_	2.0		•
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
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2  Alena Doubková, Šimon Vaculín, Josef Stingl Alena Doubková Alena Doubková (Gar.)	Z,ZK	4	2+2	L	V
16ZDOZ2	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek (Gar.)	ZK	2	2+0	L	V
16ZDOZ1	Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2+2		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	V
12ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
12ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
02ZFM1	Foundations of Physical Measurements 1	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 Vladimír Wagner (Gar.)	Z,ZK	6	3+2	Z	V
02ZJFB	Nuclear Physics B Vladimír Wagner 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	ZK	3	2+0	L	V
16MEZB	Bílý (Gar.)  Fundamentals of lonizing-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

					r	
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 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	V
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	V
12ZMD	Measurement and Data Processing Ivan Procházka	KZ	2	1+1	Z	V
Characteristics of th	ne courses of this group of Study Plan: Code=BSVOLPREDM Na	me=BS - vol	itelné p	edm ty		
Physics and its place in the	listory of Physics 1  e system of sciences. The relationship of man and nature. Natural sciences in ancient Or  d. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B  lewton and his work.					•
1	leat and Molecular Physics erials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe	notration: 1st and	1 2nd thorm	1	Z,ZK	4
•	rems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials.				-	-
1	asics of Programming ainly for students with little or no experience in programming. It familiarizes the students with little or no experience in programming.	with the basic co	ncepts in pr	ogramming a	Z and with the F	4 Python
programming language.  02TEF1 T	h corptical Dhypica 4			7	771/	
The course is an introduction to description of dynamics problem, the motion of a system.	heoretical Physics 1 on to analytical mechanics. The students acquire knowledge of the basic concepts of the l (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these ystem of constrained mass points, and of a rigid body. Advanced parts of the course cov	methods is illusti	rated on ele	rmalism as v mentary exa	mples like th	e two-body
	of classical theoretical physics (02TEF1, 02TEF2).			1 7	77/	4
	heoretical Physics 2 ns in physics. Mechanics of point mass, rigid body and continuum. The special theory of	relativity: relativis	stic mechan		Z,ZK   sical field the	4 ory in the
	ssical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagne					
approximation.	the arrange of the state of Distriction I Distriction				771/	4
Foundation of thermodyna	hermodynamics and Statistical Physics mics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditior riptionfrom a statistical point of view (classical and quasiclassical regime within the frame			e Chatelier p		
	ody radiation). The Boltzmann equation is usedto discusses simple transport phenomena	a.		Г		
	lgebra le set theory standard algebraic structures are dealt with: groups, rings, fields, modules, l	inear algebras, la	attices, Bool	l l	ZK   s, rings of pol	4 ynomials over
	farkov processes			7	Z,ZK	4
	lumerical Methods 2				KZ	2
ı	umerical solution of boundary-value problems and intial-boundary-value problems for ordin	nary and partial d	ifferential ed	quations. It ex	plains metho	ds converting
01POPR A	to initial-value problems and finite-difference methods for elliptic, parabolic and first-ordedvanced Probability advanced Theory of probability and statistics on measure-theoretic level for general distri				Z ample and	2 Lintegral
•	variables and convergence criteria. Further, the theory of statistical model estimation and					•
The subject is devoted to t	robability and Mathematical Statistics 1 he introduction to Theory of probability and statistics on measure-theoretic level for discr			ibutions and	-	
	with sample an integral characteristics of random variables and variants of limit theorem servations and statistical parametric model estimation.	is are derived (Li	LIN, ULI). II	iis knowledg	e is iurther a	pplied to the
	robability and Mathematical Statistics 2				ZK	2
	ne statistical techniques for estimation and testing within parametric and nonparametric mo				=	· ·
	tests of models, confidence regions, etc. We focus on real practical applications of these trobability and Statistics	statistical techn	iques in frar		zcific example Z,ZK	es. 4
1	ability theory and mathematical statistics. The probability theory is build gradually beginn	ing with the clas	sical definiti			
definition. The notions as ra	andom variable, distribution function of random variable and characteristics of random variable.	ariable are treate	d and basic	limit theorer	-	_
18MTL P	rogramming in MATLAB  ment as efficient tool for computation in complex arrays and symbolic variables, namely			Z	Z,ZK	5 orithmization
and geometric representat					KZ	5
	dents with various programming techniques in the Matlab environment. The emphasis is	placed on the dif	ferences in	1		_
The subject of this course	he Equations of Mathematical Physics is solving integral equations, theory of generalized functions, classification of partial difference of the property of t	rential equations	, theory of i		Z,ZK formations, a	6 nd solution of
partial differential equation	s (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).					

00EKOT | Economy in Technology
The course introduces the basics of micro- and macroeconomics.

	Rhetoric	Z	1
	I on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to t	· · · · · · · · · · · · · · · · · · ·	
	orbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are a	1	1
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
12AUX	Administration of UNIX System	KZ	2
	nced administration of Unix operating system	T ==	
01ALGE	Algebra	Z,ZK	6
	ms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem,		-
	of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral on Indent chapters are devoted to divisibility in integral domains and to finite fields.	domains, principai	ideal domains,
		Z,ZK	4
11ANEL	Linear Circuit Analysis  Discussion to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especia		1
	ods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment.	ally offerfied to trie	understanding
15CHEM	Analytical Calculations and Chemometry Principals	ZK	2
	ic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors, b	1	Į.
	e testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing,		
-	niometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in po	•	
spectrophotometry ar	d separation methods, solving of complex forming equilibria.	-	-
04ABZK	English - State Examination	ZK	5
The course content is	the examination as given by the study plan. Student is eligible for the State language examination (level C1 or B2 of CEFR) o	only if he/she has p	assed all the
espective courses ar	d examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also	examination subject	cts. As required
examination condition	s comply with respective rules and regulations for state language examinations.		
04AM1	English for Intermediate Students M1	Z	1
The course is designe	or students who have successfully completed the full secondary school English language course at least at the A2 level of t	the Common Euro	pean Framewo
of Reference for Lang	uages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamental	ls of vocabulary ar	nd style typical
	written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnica	l interest. Attentior	n is also paid to
extending the knowle	dge of grammar issues used in EAP.	,	,
04AM2	English for Intermediate Students M2	Z	1
	pects the student to have completed the 04AM1 course. It develops their skills for work with subtechnical texts, focusing also m		
= = =	al of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also gu	uided writing. If nec	essary, gramm
evision is included.			
D4AM3	English for Intermediate Students M3	Z	1
	he skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtec	-	-
	essional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
aduivalente The cour	se also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentati		
•	as also includes studying abstracts and rates for whiting them as basic rates for proparing and giving a short prosentation	ion on a chosen to	pic related to the
student's field.			
student's field. 04AP1	English for Advanced Students P1	Z	1
student's field.  04AP1  The course is designed	English for Advanced Students P1 ed for students who have successfully completed the full secondary school English language course (at least the B1 level of the	Z ne Common Europ	1 ean Framewor
student's field.  04AP1  The course is designed for the course for Langue for	English for Advanced Students P1 ad for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental contents and academic Purposes (ESP, EAP), i.e., into the fundamental contents are contents.	Z ne Common Europ entals of vocabula	1 ean Framework
student's field.  04AP1  The course is designed for Language for Langu	English for Advanced Students P1 ad for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions)	Z ne Common Europ entals of vocabula s, graph descriptio	1 ean Framewor ry, functions, ns, etc). It also
student's field.  04AP1  The course is designed for Reference for Languagrammar, and style tycovers professional or	English for Advanced Students P1 ad for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate so life and needs. It develops skills for free professional writing	Z ne Common Europ entals of vocabula s, graph descriptio	1 ean Framewori ry, functions, ns, etc). It also
student's field.  04AP1  The course is designe of Reference for Lang grammar, and style ty covers professional or polite request). If nece	English for Advanced Students P1 ed for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writingstary, revision of selected grammar topics is included.	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let	1 ean Framewori ry, functions, ns, etc). It also
student's field.  04AP1  The course is designe of Reference for Lang grammar, and style ty covers professional or polite request). If nece	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let	1 ean Framewori ry, functions, ns, etc). It also ter of applicatio
student's field.  04AP1  The course is designe of Reference for Lang grammar, and style ty covers professional or polite request). If nece  04AP2  The 04AP2 course is	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosens.	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so	1 ean Framewor ry, functions, ns, etc). It also ter of applicatio  1 ience. Accordir
student's field.  04AP1  The course is designed for Reference for Language grammar, and style type covers professional or polite request). If necession of the other students' need to the students' n	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of choses it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical riverses.	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so netorical functions	1 ean Framewor ry, functions, ns, etc). It also ter of applicatio 1 ieience. Accordir (e.g., various
student's field.  O4AP1  The course is designed for Reference for Language grammar, and style type covers professional or colite request). If necession of the output for the output for the students' need types of descriptions,	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosens.	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so netorical functions linguistically more	1 ean Framewor ry, functions, ns, etc). It also ter of applicatio  1 ience. Accordii (e.g., various demanding
student's field.  D4AP1  The course is designed for Reference for Language grammar, and style type covers professional or colite request). If necession for the students' need types of descriptions, materials. The course	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of choses it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhand, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of I	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so netorical functions linguistically more	1 ean Framewor ry, functions, ns, etc). It also ter of applicatio  1 ience. Accordir (e.g., various demanding
student's field.  04AP1  The course is designed for Reference for Language grammar, and style type covers professional or polite request). If necession for the outper of the outper of descriptions, materials. The course sentence and paragrammaterials.	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 passed on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chose is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhand, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of lextends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science.	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so netorical functions linguistically more	1 ean Frameworl ry, functions, ns, etc). It also ter of applicatio  1 ience. Accordir (e.g., various demanding
student's field.  D4AP1 The course is designer of Reference for Language grammar, and style by covers professional or polite request). If necession of the O4AP2 The O4AP2 course is the students' need by the students' nee	English for Advanced Students P1 and for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2 based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of choses it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhand, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of I extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused	Z ne Common Europ entals of vocabula s, graph descriptio ng (writing a CV, let  Z sen branches of so netorical functions linguistically more d on formal writing	1 ean Framewor ry, functions, ns, etc). It also ter of applicatio  1 cience. Accordin (e.g., various demanding including the
student's field.  D4AP1 The course is designed for Reference for Language and style by covers professional or colite request). If necession for the other students in each year of descriptions, materials. The course sentence and paragraph of the other students of the stu	English for Advanced Students P1  ed for students who have successfully completed the full secondary school English language course (at least the B1 level of the uages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamental of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions all and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing essary, revision of selected grammar topics is included.  English for Advanced Students P2  passed on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of choses it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhand, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of lextends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused that the profession and coherence in texts.  English for Advanced Students P3	Z ne Common Europentals of vocabula s, graph description ng (writing a CV, let Z sen branches of so netorical functions linguistically more d on formal writing Z the text. It includes	ean Framewor ry, functions, ns, etc). It also ter of applicatio  1 cience. Accordic (e.g., various demanding including the  1 training oral al
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lexicology and on deve	Intermediate Czech 3	Z	1
	morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially	cially focused on s	tylistics and
U/CECD4	oping the student's writing skills.		
04CESP1	Czech for Foreign Students - Advanced Examination	Z	1
	course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Eu		
	evision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures, but mainly on practising more complex grammatical structures typical of the style of standard language structures.		
-	e of engineering and professional communication, both in spoken and written form. The topics include University Studies and	Student Life. Writ	ten practice
	n with teachers and faculty administrators.	_	
04CESP2	Czech for Foreigners - Advanced	Z	1
	e student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a	nd specialist texts	placing greater
emphasis on individual		7	4
04CESP3	Czech for Foreigners - Advanced	Z	1
· ·	e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation g skills necessary for professional communication are trained.	on, and, finally, pre	sentation of the
		71/	2
15DALCH	History of Alchemy and Chemistry e overview of crafts with chemical and/or metallurgical basis. Development of alchemy from ancient times in China, India, and	ZK	
	is dedicated to Alchemy in Arabic world and various aspects of alchemy in Latin Europe. The influence of alchemical approac		
advancement is illustra		moo dovolopmont	onto orano
02DEF2	History of Physics 2	Z	2
	al mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. El	_	
	m, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmani	-	
1	Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er		
	nncept of Nature and Universe of today.		
01DEM	History of Mathematics	Z	1
	m of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field	- give their talks of	n varoius topics
from the history of matl			·
02DRG	Differential Equations, Symmetries and Groups	Z	4
	ure is to teach students computation of symmetries of the differential equations.	_ '	·
01DIM1	Discrete Mathematics 1	Z	2
	to elementary number theory and applications. It includes individual problem solving.	_	_
01DIM2	Discrete Mathematics 2	Z	2
	to recurrence relations. It includes individual problem solving.	_	_
01DIM3	Discrete Mathematics 3	Z	2
	to elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar	- 1	_
solution chosen from th	e given literature.	·	
11ELEA	Instrumentation and Measurement	Z,ZK	2
The course is the introd	duction to the instrumentation and measurement for physicists.	,	
14ELMI	Electron Microscopy	Z,ZK	3
In this course the stude	nts are introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles. The intr		edicated to the
analogy of light and ele	ctron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different ty	vpes of radiation v	uith manttar
and the second second		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	viin mailer,
mathematical formulation	ons and tools used in microscopy and to the description of particular parts of the microscopes. Introduction to kinematic and d		
of contrast, and diffract	ion and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in	ynamic theory of o	
of contrast, and diffract		ynamic theory of o	
of contrast, and diffract	ion and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in	ynamic theory of catomic resolution.	diffraction, types
of contrast, and diffract	ion and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in a English Graduate Standard 1	ynamic theory of catomic resolution.	diffraction, types
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of contrast, and diffract 12EGS1 Improving the knowledge 18ESPG1 Spreadsheet calculator office tools. The accent and user functions will	English Graduate Standard 1 ge in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pro European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introis put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language be addressed.	ynamic theory of catomic resolution.  KZ oceedings to be pounced by the catomic resolution.  Z duces the student be will be introduce	diffraction, types  4 ublished 2 s also into other d and macros
of contrast, and diffract 12EGS1 Improving the knowledge 18ESPG1 Spreadsheet calculator office tools. The accent and user functions will 18ESPG2	ion and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in a English Graduate Standard 1 ge in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pro European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introis put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language be addressed.  European Computer Driving Licence 2	ynamic theory of catomic resolution.  KZ  occeedings to be pound of the catomic resolution.  Z  duces the student e will be introduce	diffraction, types  4 ublished 2 s also into other d and macros
of contrast, and diffract 12EGS1 Improving the knowledge 18ESPG1 Spreadsheet calculator office tools. The accent and user functions will 18ESPG2 Spreadsheet calculator	English Graduate Standard 1 ge in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pro European Computer Driving Licence 1 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 be addressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the	ynamic theory of catomic resolution.  KZ  occeedings to be p  Z  duces the student e will be introduce  Z  the winter semeste	4 ublished 2 s also into other d and macros 2 or with advanced
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of contrast, and diffract  12EGS1 Improving the knowledge  18ESPG1 Spreadsheet calculator office tools. The accent and user functions will  18ESPG2 Spreadsheet calculator VBA programming topic computer science.  16EPAM Aims and methods of his	English Graduate Standard 1 ge in English Presentation, English Discussions, creation of the technical text, structures of important documents, Program Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introvise put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language be addressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the context of	ynamic theory of catomic resolution.  KZ  occeedings to be p  Z  duces the student e will be introduce  Z  he winter semeste tics, operational resolution.	4 ublished 2 s also into other d and macros  2 r with advanced esearch, and 2 ndrochronology,
of contrast, and diffract  12EGS1 Improving the knowledge  18ESPG1 Spreadsheet calculator office tools. The accent and user functions will  18ESPG2 Spreadsheet calculator VBA programming topic computer science.  16EPAM Aims and methods of his archaeomagnetism), and	English Graduate Standard 1 ge in English Presentation, English Discussions, creation of the technical text, structures of important documents, Pro European Computer Driving Licence 1 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 be addressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to cs (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemat  Exact Methods in Research of Historic Monuments	ynamic theory of catomic resolution.  KZ  occeedings to be p  Z  duces the student e will be introduce  Z  he winter semeste tics, operational resolution.	4 ublished 2 s also into other d and macros  2 r with advanced esearch, and 2 ndrochronology,
of contrast, and diffract  12EGS1 Improving the knowledge 18ESPG1 Spreadsheet calculator office tools. The accent and user functions will 18ESPG2 Spreadsheet calculator VBA programming topic computer science.  16EPAM Aims and methods of his archaeomagnetism), an photogrammetry.	English Graduate Standard 1 ge in English Presentation, English Discussions, creation of the technical text, structures of important documents, Program Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introduce and dressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introduce addressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the context of th	ynamic theory of catomic resolution.  KZ  occeedings to be p  Z  duces the student e will be introduce  Z  he winter semeste tics, operational re  ZK  diation methods, de analysis and other	4 ublished 2 s also into other d and macros 2 or with advanced esearch, and 2 ndrochronology, methods),
of contrast, and diffract  12EGS1 Improving the knowledge  18ESPG1 Spreadsheet calculator office tools. The accent and user functions will  18ESPG2 Spreadsheet calculator VBA programming topic computer science.  16EPAM Aims and methods of his archaeomagnetism), an photogrammetry.  02EXF1	English Graduate Standard 1 ge in English Presentation, English Discussions, creation of the technical text, structures of important documents, Program Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester introduce and drawned functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language be addressed.  European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the context of the standard of the s	ynamic theory of catomic resolution.  KZ oceedings to be p  Z duces the student e will be introduce  Z he winter semeste tics, operational resolution methods, deanalysis and other	4 ublished 2 s also into other d and macros  2 or with advanced esearch, and 2 Indrochronology, remethods),
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04FM2	French for Intermediate Students M2	Z	1
Course FM2 builds on F	M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science	texts, features typ	ical for technical
	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sci	ence and technologic	gy, French
scientists, artists and ar	rchitects. Description of an object, device, shapes, dimensions, material.		
04FM3	French for Intermediate Students M3	Z	1
	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 v	•	r French articles
	Ige/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and	1	
04FP1	French for Advanced Students P1	Z	1
	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	-	
•	04FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topi	•	
	osé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of t		-
· ·	wer to an advert, environmental issues, success of French science and technology, chosen topics from French regional cultu-	ire, Faris. Topics o	i specialization.
	ohysics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation.	7	
04FP2	French for Advanced Students P2	Z Z	1
	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication c communication are stressed (passive voice, nominalization, word formation).	in given topics. Fea	atures typical of
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04FP3	French for Advanded Students P3  n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	Z Z	I anmont Special
	rter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally co		
	rk compiled from 3 French sources. Preparation of several set topics for oral examination.	vers a tecrifical /a	pplied science
-		7	1
04FZ1	French for Beginners Z1 le objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in	Z	1 professional life
•	ench for specific / technical communication and reading of popular science and scientific texts. 04FZ1 The objective is to be a		
	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		
· -	ate ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions		_
	mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia	-	and in a control of the control
04FZ2	French for Beginners Z2	Z	1
-	owith 04FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 i	. – .	· ·
= :	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agree		
_	o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	_	
	work? A few expressions concerning the study. Name of University and Faculty.		
04FZ3	French for Beginners Z3	Z	1
	04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda	- 1	h for Beginners.
•	tuations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in		_
-	Reading covers short adapted texts of general interest first, and later popular science texts.		
04FZ4	French for Beginners Z4	Z	1
-	n 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. Th	1	· ·
·	xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the le	ŭ	•
	ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho		
	how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.	,	,
04FZ5	French for Beginners Z5	Z	1
	n FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The	1	in the class. The
· · · · · · · · · · · · · · · · · · ·	ered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
-	ch science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate c		
subjunctive clauses, ge	rund, passive.		
01FKP	Functions of Complex Variable	ZK	2
	Ivanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings	1	
functions. Basic propert	ies of complex functions of several complex variables together with improper line integrals and its applications are presented	<b>i</b> .	
01FKPB	Functions of Complex Variable B	Z	2
	dvanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings	1	
-	ies of complex functions of several complex variables together with improper line integrals and its applications are presented		·
01FAN1	Functional Analysis 1	Z,ZK	4
	ts are addressed concerning successively topological spaces, metric spaces, topological vector spaces, normed and Banacl		
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	1 ' 1	_
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		
· · · · · · · · · · · · · · · · · · ·	ors, spectral decomposition of bounded self-adjoint operators.	operatore and the	r opootram,
02PRA1	Experimental Laboratory 1	KZ	6
	Experimental Laboratory   ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea	1	_
<u>-</u>	erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work wit		
	with a superior of the	-	-
-	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and eval	uation of results A	
of the measurement (ac	equire of different experimental procedures and routines), willteach writing the records of measurement, processing and evalution owledge gained in lectures on physics.	uation of results. A	
of the measurement (ac practically extendthe kn	owledge gained in lectures on physics.		
of the measurement (ac practically extendthe kn 02PRA2	owledge gained in lectures on physics.  Experimental Laboratory 2	KZ	6
of the measurement (ac practically extendthe kn 02PRA2 Lecture is intended esp	owledge gained in lectures on physics.  Experimental Laboratory 2 ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea	KZ Ir Engineering). Bu	6 t it can be also
of the measurement (ac practically extendthe kn 02PRA2 Lecture is intended esp attended by students intended	owledge gained in lectures on physics.  Experimental Laboratory 2	KZ r Engineering). Bu	6 t it can be also implementation
of the measurement (ac practically extendthe kn 02PRA2 Lecture is intended esp attended by students into of the measurement (ac	owledge gained in lectures on physics.  Experimental Laboratory 2 ecially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea erested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work wit	KZ r Engineering). Bu	6 t it can be also implementation

02FYS1	Physical Seminar 1	Z	2
	to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical	-	e course of
	ns are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laboratory equi	ipments.	
02FYS2	Physical Seminar 2	Z	2
	to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic	•	
	m. The problems are chosen studied and presented by the students themselves, with the possibility to use PC and physical	laboratory equipm	
01GTDR	Geometric Theory of Ordinary Differential Equations	Z	2
	the qualitative theory of ODEs dealing with the geometric and topological properties of the solution. In this context, we mention	n suitably formula	ted basic results
	iqueness, continuous dependence on parameters and initial conditions. Main part is devoted to the autonomous systems.	7 71/	
12INS1	Information Systems 1	Z,ZK	2
	architecture of the databases, network databases, cloud application Google, Microsoft, information managament, aproaches to		
12INS2	Information Systems 2	Z,ZK	2
	on systems 1 is required. In more details: Information technology, architecture of the databases, network databases, cloud ap nt, aproaches to solve task of information systems	pplication Google,	MICROSOIT,
16ZJTB		ZK	2
	Nuclear Energy Facilities and Accelerators 		
	rs, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons	•	
accelerators, targets.	o, mod mg. noqually december and protein special on operation, mercural, actual on, ordered and protein special	o, 0.00.0 aa	
17JARE	Nuclear Reactors	ZK	2
-	er issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety sys		
•	ations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. F		
Western-type PWR (We	estinghouse, KWU, Framatom). VVER-type reactors, Temelín nuclear power plant. Boiling water reactors. Heavy water reactor	ors, fast breeder re	eactors,
high-temperature gas co	poled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF at	nd INPRO initiativ	es. Evaluation
	ed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in long-term ou		
01JEPR	Simple Compilers	Z	2
Lexical and syntax anal	ysis, code generation, simple optimizations, development environments, reflection.		
16KPR	Clinical Propaedeutic	ZK	2
Making students familia	r with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemic	cal examinations	and anaesthesia
04AKS	English Conversation	Z	1
The course will develop	the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun	ication. The stude	ent will develop
-	ous communication situations and will master their communication strategy. They will also practise their listening skills in order		and participate
	lent will be trained to express their ideas clearly and according to current English usage, and become a more confident speal		
02KF	Quantum Physics	Z,ZK	3
•	function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heis	enberg uncertaint	ty principle,
quantization of angular	momentum, solution of simple systems, hydrogen atom.		
001.054		_	
02LCF1	Experimental Laboratory 1	Z	2
Cavendish experiment.	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.		
Cavendish experiment. 02LCF2	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2	z	2
Cavendish experiment.  02LCF2  Electric and magnetic fi	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics	Z	2
Cavendish experiment.  02LCF2 Electric and magnetic final triangle of the control	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1	Z Z,ZK	2
Cavendish experiment.  02LCF2  Electric and magnetic fi  12LT1  Open resonators. Stabil	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a	Z Z,ZK approximation of t	2 3 he fundamental
Cavendish experiment.  02LCF2 Electric and magnetic file 12LT1 Open resonators. Stabil mode. ABCD method. C	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an apprical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion	Z Z,ZK approximation of t	2 3 he fundamental
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse pro	Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. 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, dispersionagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.	Z Z,ZK approximation of t on, saturation. Coh	2 3 he fundamental nerent and
Cavendish experiment.  02LCF2 Electric and magnetic file 12LT1 Open resonators. Stabil mode. ABCD method. Conon-coherent pulse properties.	Elasticity. Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an applical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2	Z Z,ZK approximation of t	2 3 he fundamental
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse prop 12LT2 Laser oscillator, the rate	Elasticity. Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking	Z,ZK approximation of ton, saturation. Coh	2 3 he fundamental herent and 2
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse prop 12LT2 Laser oscillator, the rate	Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems	Z,ZK approximation of ton, saturation. Coh	2 3 he fundamental herent and 2 3
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse prop 12LT2 Laser oscillator, the rate 12LAS Pulsed solid state nano-	Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems second lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers.	Z,ZK approximation of ton, saturation. Coh Z,ZK  Z,ZK  Optical parametr	2 3 he fundamental herent and 2 3 ic generators
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse prop 12LT2 Laser oscillator, the rate 12LAS Pulsed solid state nano and raman lasers. Semi	Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems	Z,ZK approximation of ton, saturation. Coh Z,ZK  Z,ZK  Optical parametr	2 3 he fundamental herent and 2 3 ic generators
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. C non-coherent pulse prop 12LT2 Laser oscillator, the rate 12LAS Pulsed solid state nano and raman lasers. Semi	Elasticity. Thermal capacities. Electric measurements, Acoustic. Oscillations.  Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an a optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems second lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. conductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultros. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron lasers.	Z,ZK approximation of ton, saturation. Coh Z,ZK  Z,ZK  Optical parametr	2 3 he fundamental herent and 2 3 ic generators
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Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. Connon-coherent pulse properties of the properties o	Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an applical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems second lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. conductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultras. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron lasers.  Linear Programming  ms about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are grant discussions of the constraint equations are grant discussions of the programming of the constraint equations are grant discussions of the constraint equations of the constraint equations are grant discussions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic pherical pages.	Z,ZK approximation of to the province of the p	2 3 he fundamental herent and 2 3 ic generators ay lasers. High 3 ations and linear 4 oney market, nodels of IS-LM,
Cavendish experiment.  02LCF2 Electric and magnetic fi 12LT1 Open resonators. Stabil mode. ABCD method. Connon-coherent pulse properties of the properties o	Experimental Laboratory 2 eld, microwaves, Xray and gamma rays, geometric optics  Laser Technique 1 ity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an applical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersionagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator.  Laser Technique 2 equation, the laser amplifier, Q-switching, mode-locking  Laser Systems second lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. conductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultras. Infrared high power lasers. Submillimeter lasers. Lasers with high degree of coherence. Free electron lasers.  Linear Programming ms about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic tions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life.	Z,ZK approximation of to the proximation. Cohe Z,ZK  Z,ZK  Optical parametr aviolet lasers. X-raviolet laser	2 3 he fundamental herent and 2 3 ic generators ay lasers. High 3 ations and linear 4 oney market, nodels of IS-LM, interconnections
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00MAM1	Essentials of High School Course 1	Z	1
DOMAM2	Essentials of High School Math Course 2	Z	1
-	igh school mathematics.	_	
1MMPV	Mathematical Models of Groundwater Flow	KZ	2
he course provides	an overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mathe		ons of these
roblems. The secon	d part is aimed at selected numerical methods, emphasizing implementation issues related to these methods.		
1MMF	Methods of Mathematical Physics	Z,ZK	6
he course provides	an introduction to the theory of distributions with applications to solutions of partial differential equations with constant coefficier		edholm theore
	case of a continuous kernel on a compact set as well as Sturm-Liouville operators on bounded intervals, and applications of the		
the solution of son	e boundary value problems and mixed problems.		
8MIK1	Microeconomics 1	Z,ZK	5
	set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. M	1 '	1
rices and markets ir	these processes, and makes more clear behaviour of the economic agents. This course of Microeconomics I consist of introdu	uction in Microeco	onomics and
Consumer Theory.			
8MIK2	Microeconomics 2	Z,ZK	5
Aicroeconomics is a	set of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microecono	mics explain the r	role of prices a
narkets in this proce	ss and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Industria	l Organisation.	
1MIK	Logical Circuits and Microprocessors	Z,ZK	4
	oduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential cir		1
	microcomputer architecture and principles of interfacing is shown.		
2MPR1	Microprocessors 1	ZK	4
	nicrocomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, in	I	1 -
•	alls, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroas		
ISC processors - pr		oombior, program	iriii g iarigaag
2MPR2	Microprocessors 2	ZK	2
	MICLOPTOCESSOTS 2 ata types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assembler. description	1	
		ZK	
2MOF	Molecular Physics	1	2
	atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure deter		
2NT	Nanotechnology	ZK	2
	e students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Phys		
_	(MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technol	-	
	ation. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for he		
	ssed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric la	yer preparation w	ill be mention
s well as soldering a	<del></del>		
2NSAD	Simulations and Data Analysis Tools	Z	2
	- I	_	_
	nulations of high energy elementary particle collisions. ROOT and Pythia programs.	1	-
	- I	Z	1 1
04NM1 The objective of the o	nulations of high energy elementary particle collisions. ROOT and Pythia programs.  German for Intermediate Students M1 ourse is to level off the students ´skills in the German language. The course focuses on revision of more difficult phenomena an	Z nd structures (e.g.	1 the passive) a
04NM1 The objective of the covord formation proce	nulations of high energy elementary particle collisions. ROOT and Pythia programs.  German for Intermediate Students M1 ourse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena an sses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	Z and structures (e.g. blic and Germany	1 the passive) a
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04NM1 The objective of the overal formation proces on vironmental issues the order of the order	German for Intermediate Students M1  ourse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena an asses (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repultogether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis ps communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.	Z  Id structures (e.g. blic and Germany tts, and the fundar	1 the passive) a , current mentals of IT
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02OR General Relativity Introduction to general theory of relativity: principle	of equivalence and principle of general covariance, parallel transport and geodesic equation, gra	ZK avitational redshift.	3 Curvature and
-	of the Einstein equations, homogeneous and isotropic cosmological models.		
	ural Language 1 lerstanding of natural languages. Automatic methods of morphological and syntactic analysis incli el morphology, tagging and language models, Viterbi algorithm, grammars, chart parsing, probabi	_	2 istical methods
01POPJ2 Computers and Nati		Z	2
	e broad topic of machine translation (MT). Machine translation is a challenging task that can serve cover several rather different approaches to the task as well as issues related to automatic and ma		-
quality.	over coveral rather amount approached to the tack as from as located rotated to automatic and me	andar ovardation of	ranolation
12POAL Computer Algebra		KZ	2
	nal and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetic egration, ordinary differential equations, factorization, equations solving, quantifier elimination, su		
algebraic programming, graphics, Maple - detailed	introduction and solving of practical examples, applications, overview of other systems (Axiom, Ma	csyma, Mathemat	ica), miniproject.
01POGR1   Computer Graphics	`I nics" course is devoted to the specifics of digital display devices spanning from history up to the sta	Zate of the art techn	2 nologies Further
	raphics is given together with their solutions. Focus is put on mathematical description of problems ar		_
	a variety of subjects available at FNSPE. The final part of the course covers the applications of c	omputer graphics	approaches in
the process of authoring scientific documents and 01POGR2 Computer Graphics		7	2
	Zeraphics" course begins with a brief introduction to signal theory in the context of aliasing - a phen		_
graphics. Further, a well structured survey of funda	mental problems in 3D computer graphics is given together with their solutions, from the descript	ion of a 3D scene	to its realistic
	n of problems and explanation of the corresponding algorithms using knowledge previously obtain	•	•
using Blender, an open-source 3D modeling and re	uch as data structures design etc. is also a matter of concern. In the last lecture, a number of theo endering software instrument.	retical concepts a	re demonstrated
01SITE1 Computer Networks	-	Z	2
, , , , , , , , , , , , , , , , , , , ,	AN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network		
	mote access, www. Secure communication, tunneling. Directory services, certificates, certification a (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the s	=	-
01SITE2 Computer Networks		Z	2
· ·	AN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network		_
	mote access, www. Secure communication, tunneling. Directory services, certificates, certification a	• •	•
12PEL1 Practical Electronics	packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the s	Z,ZK	modems)
l '	s i analyses of circuit solving. Measurement in electronic, measurement of frequency and phase. Ana	1 ' 1	
	permeter, oscilloscope, spectral analyser and logical analyser.		
12PEL2 Practical Electronics		Z,ZK	2
12PIN1 Practical Informatics	s system design. Noise measurement. Time measurement. Printed circuit design.	Z	2
	iter, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface	ace. Hardware and	l
	perating system for research and technical computing. Operating system UNIX. Basic principles, kern		
	ditors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling pro- user interface X-windows. Computer networks. Local computer networks. Global computer netwo		
	uter. Network services: hardware sharing, mail, ftp, etc. Network applications		
12PIN2 Practical Informatics		Z	2
	es and applications of informatics for science and engineering included as obligatory alternative co ourse is "Introduction to computer algebra systems?.	ourse. Constituent	part is realized
12PIN3 Practical Informatics		Z	2
	es and applications of informatics for science and engineering included as obligatory alternative or	1	
in computer classrooms. The third part of the cours			
	in Instrumental Methods	KZ there problems	Lho training is
_	modern instrumental methods and techniques for solving some physico-chemical analytical and of Sciences (Institute of Physical Chemistry) and partly in laboratory at the Department of Nuclear	-	The training is
01PRSTB Probability and Stati	istics B	KZ	4
1	matical statistics. The probability theory is build gradually beginning with the classical definition a	-	-
	tion function of random variable and characteristics of random variable are treated and basic limit athematical statistics such as estimation of distribution parameters and hypothesis testing are ex		ted and proved.
	g-Radiation Applications	ZK	2
, ,	on of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radic	1	
	ected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the use		
16FNZB   Problems of Non-ion	າເຂົາກຽ Kadiation zing radiation and its use in physical praxis. Information about principles, biological effects and me	ZK	ds of magnetic
_	pes of technical or medical equipment are given as well.	Allous used in her	as of magnetic
12PSEM Problem Seminary		Z	2
	naterials engineering, physical electronics, materials science, nuclear reactors, dosimetry and ap	plication of ionizat	
01PROP   Programmer's Pract	ICUM Iramming habits which will help in writing of clean code, i.e. such that is easy to comprehend by o		for adding new
functionality. Using specific examples, the students	get familiar with naming conventions, and continue through writing project documentation, princi		-
debugging, up to creating object-oriented design, o			_
01PERI   Programming of Per	ripherals Devices outer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of periphera	Z als device drivers.	2
01PW Windows Programm		Z	2
	editing controls. File input and output. User defined components, dynamic type identification and	reflection.	

18PRC1 This course covers ma		1	1
This course covers ma	Programming in C++ 1	Z	4
18PRC2	nly the C programming language and non-object oriented features of the C++ language.	KZ	4
	Programming in C++ 2   Programming and othesr advanced constructs in the C+;+ programming language and the Standard Template	1	4
18PJ	Programming in Java	Z,ZK	5
	to the Java platform and to the development of the basic types of applications for this platform.	_,	
18PAS	Pascal Programming	Z	4
This lecture is intended	mainly for students, with little or no experience in programming. It familiarizes the students with the basic concepts in progra	mming and with t	he Pascal
programming language			
12PDR1	Data Communication and Interfaces 1	Z	2
12PDR2	networks, networks architectures and data transfer. Specification of existing network architectures.	Z	
	Data Communication and Interfaces 2 standards and basics of protocol suite TCP/IP.		2
01PSL	LaTex - Publication Instrument	Z	2
	to the basics and facilities of computer typography, particularly to the system LaTeX	_	_
02RQGP1	Seminar on Quark-Gluon Plasma 1	Z	1
	is discuss the selection of the most fundamental articles in heavy ion physics.	_	1
02RQGP2	Seminar on Quark-Gluon Plasma 2	Z	1
The aim of the semina	is discuss the selection of the most fundamental articles in heavy ion physics.		!
04RM1	Russian for Intermediate Students M1	Z	1
I -	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha		
	mmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask	, ,	, ,
-	mmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievemen the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	t level of the RZZ	course. The
04RM2	Russian for Intermediate Students M2	Z	1
-	n 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	_	f the time allotted
in the timetable.			
04RP1	Russian for Advanced Students P1	Z	1
· ·	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	acticing more diff	icult grammar
	ng the fundamentals of technical language and training writing skills.		
04RP2	Russian for Advanced Students P2	Z	1
	n RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ut on independent oral and written communication.	verb aspects, sp	ecific syntactic
04RP3	Russian for Advanced Students P3	Z	1
	n RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra	_	1
	revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).		
these skills. Further stu	dy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and	d written interpreta	ation). Students
	cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write	accurately and w	ith confidence on
technical topics.	Duration for Dagingon 74		
04RZ1		7	1
	Russian for Beginners Z1	Z	1
	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus	sian. Thus it begir	
the Russian alphabet (		sian. Thus it begir	
the Russian alphabet (	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak	sian. Thus it begir	
the Russian alphabet ( a short text with marke 04RZ2 The second semester	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2 of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short s	isian. Thus it begirking). Students wi	Il be able to read  1 Students will be
the Russian alphabet ( a short text with marker 04RZ2 The second semester able to communicate u	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaf d stress, understand its contents and summarize it.  Russian for Beginners Z2  of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will	isian. Thus it begirking). Students wi	Il be able to read  1 Students will be
the Russian alphabet ( a short text with marker 04RZ2 The second semester able to communicate ut master further gramma	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2     Programme is designed to teach skills for basic communication in everyday situations and for reading easy and short so sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.	isian. Thus it begirking). Students wi	Il be able to read  1 Students will be
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate u master further gramma 04RZ3	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2     Russian for Beginners Z2     of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.    Russian for Beginners Z3	isian. Thus it beginking). Students wire Zubtechnical texts. I also develop the	1 Students will be ir vocabulary and
the Russian alphabet ( a short text with marker 04RZ2 The second semester able to communicate us master further gramma 04RZ3 The course is based or	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2	Isian. Thus it beginking). Students wing. Students wing. Zubtechnical texts. I also develop the Zning various form	1 Students will be ir vocabulary and 1 s of reading skills
the Russian alphabet ( a short text with marker  04RZ2  The second semester able to communicate us master further gramma  04RZ3  The course is based or and listening) and intro	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2	Isian. Thus it beginking). Students wing. Students wing. Zubtechnical texts. I also develop the Zning various form	1 Students will be ir vocabulary and 1 s of reading skills
the Russian alphabet ( a short text with marker  04RZ2  The second semester able to communicate us master further gramma  04RZ3  The course is based or and listening) and intro	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2     In the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short soing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.    Russian for Beginners Z3     RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for trained use new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be ress their opinion. Writing skills will be trained on guided writing tasks and note-taking.	Isian. Thus it beginking). Students wing. Students wing. Zubtechnical texts. I also develop the Zning various form	1 Students will be ir vocabulary and 1 s of reading skills
the Russian alphabet ( a short text with marker  04RZ2  The second semester able to communicate use to communicate use to the second semester further gramman  04RZ3  The course is based or and listening) and introdunderstood, and to exponential second se	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the  Z ning various form be able to respond	1 Students will be ir vocabulary and 1 s of reading skills d so as to be
the Russian alphabet ( a short text with marker  04RZ2  The second semester able to communicate use to communicate use the second semester further gramman output for the second	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various form be able to respond  Z ts with a certain p	1 Students will be ir vocabulary and 1 s of reading skills d so as to be 1 ercentage of rerences in verb
the Russian alphabet ( a short text with marker  04RZ2  The second semester able to communicate use to communicate use and the second semester further gramman output for the course is based on and listening) and introdunderstood, and to expression of the course is based on unfamiliar words, or all opatterns from Czech, respectively.	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak distress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various form be able to respond  Z ts with a certain p tregular verbs, diff ee time), and prace	If be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of reences in verb ctice oral and
the Russian alphabet ( a short text with marker  04RZ2 The second semester able to communicate use to communicate use the second semester further gramman of the second semester further gramman of the second semester further gramman of the second semester is based on the second seminary semi	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak at stress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various form be able to respond  Z ts with a certain p tregular verbs, diff ee time), and prace	If be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of reences in verb ctice oral and
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate understood, and introdunderstood, and to export of the course is based or unfamiliar words, oral of patterns from Czech, rustiten communication fill in forms, look up the	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak at stress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various formore able to responde  Z ts with a certain peregular verbs, diffeet time), and praidata (e.g., Siberian)	If be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of ferences in verb ctice oral and a), learn how to
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate unaster further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode 04RZ4 The course is based or unfamiliar words, oral or patterns from Czech, now itten communication fill in forms, look up the 04RZ5	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak at stress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various form be able to respond I Z st with a certain p regular verbs, diff ee time), and praidata (e.g., Siberia	Il be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of ferences in verb ctice oral and a), learn how to
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate unaster further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode 04RZ4 The course is based or unfamiliar words, oral or patterns from Czech, now itten communication fill in forms, look up the 04RZ5 The course expects the	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak at stress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the Z ning various form be able to respond I Z swith a certain p regular verbs, diff ee time), and praidata (e.g., Siberial	Il be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of ferences in verb ctice oral and a), learn how to  1 and summarizing
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the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate understood, and to expode the course is based or and listening) and introunderstood, and to expode the course is based or unfamiliar words, oral or patterns from Czech, rewritten communication fill in forms, look up the 04RZ5 The course expects the information from a speeveryday topics. Study passive voice). Studen 01RSWP	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal of stress, understand its contents and summarize it.    Russian for Beginners Z2	Z ubtechnical texts. I also develop the  Z ning various form be able to respond Es with a certain p regular verbs, diffee time), and praidata (e.g., Siberial  Z unding, extracting sommunication sk on (verbal adjectivest, etc.)	Il be able to read  1 Students will be ir vocabulary and 1 s of reading skills d so as to be  1 ercentage of rerences in verb ctice oral and a), learn how to  1 and summarizing ills are trained on res, participles,
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate unaster further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode the course is based or unfamiliar words, oral or unfamiliar words, oral or patterns from Czech, in written communication fill in forms, look up the 104RZ5 The course expects the information from a speeveryday topics. Study passive voice). Studen 101RSWP The course Project maintenance in the short state of the s	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal d stress, understand its contents and summarize it.  Russian for Beginners Z2  of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short s sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.  Russian for Beginners Z3  RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for traid duces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will tress their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4  nother of the provided situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., indeality, 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 information from the timetable, learn about Russian holidays and typical meals.  Russian for Beginners Z5  student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understaticalized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Cong grammar is based on professional and technical texts and only includes items typically used in professional communicatics develop their technical and economic vocabulary, and are also trained in some profess	Z ubtechnical texts. I also develop the  Z ning various form be able to respond  Z sts with a certain p regular verbs, diff ee time), and pradata (e.g., Siberial  Z unding, extracting a communication sk on (verbal adjective est, etc.)  KZ y projects of very of	Il be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of erences in verb ctice oral and a), learn how to  1 and summarizing ills are trained on res, participles,  2 diverse character.
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate use master further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode of the course is based or unfamiliar words, oral or patterns from Czech, rewritten communication fill in forms, look up the 104RZ5 The course expects the information from a speeveryday topics. Study passive voice). Studen 101RSWP The course Project man The course structure of	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal of stress, understand its contents and summarize it.  Russian for Beginners Z2  If the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.  Russian for Beginners Z3  RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for traiduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be tress their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4  104RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text) or munication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., ir nodality, 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 information from the timetable, learn about Russian holidays and typical meals.  Russian for Beginners Z5  student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understaticalized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C magrammar is based on professional and technical texts and only includes items t	Z ubtechnical texts. I also develop the  Z ning various form be able to respond  Z sts with a certain p regular verbs, diff ee time), and pradata (e.g., Siberial  Z unding, extracting a communication sk on (verbal adjective est, etc.)  KZ y projects of very of	Il be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of erences in verb ctice oral and a), learn how to  1 and summarizing ills are trained on res, participles,  2 diverse character.
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate use master further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode of the course is based or unfamiliar words, oral or patterns from Czech, rewritten communication fill in forms, look up the 104RZ5 The course expects the information from a speeveryday topics. Study passive voice). Studen 01RSWP The course Project man The course structure or is paid to software project.	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak d stress, understand its contents and summarize it.    Russian for Beginners Z2   Russian for Beginners Z2   Russian for sedimental set of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short stain short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.    Russian for Beginners Z3   RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for traid duces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be ress their opinion. Writing skills will be trained on guided writing tasks and note-taking.    Russian for Beginners Z4   104RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text ommunication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., ir nodality, 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 information from the timetable, learn about Russian holidays and typical meals.    Russian for Beginners Z5   student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understabilized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C ang grammar is ba	Z ubtechnical texts. I also develop the  Z ning various form be able to respond  Z sts with a certain p regular verbs, diff ee time), and praidata (e.g., Siberial  Z unding, extracting tommunication sk on (verbal adjectivest, etc.)  KZ y projects of very of eir management.	Il be able to read  1 Students will be ir vocabulary and  1 s of reading skills d so as to be  1 ercentage of erences in verbetrice oral and a), learn how to  1 and summarizing ills are trained on res, participles,  2 diverse character. Specific attention
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate unaster further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expode of the course is based or unfamiliar words, oral or patterns from Czech, rowritten communication fill in forms, look up the 04RZ5 The course expects the information from a special everyday topics. Study passive voice). Studen 01RSWP The course Project man The course structure or is paid to software projects.	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speal of stress, understand its contents and summarize it.  Russian for Beginners Z2  If the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.  Russian for Beginners Z3  RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for traiduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be tress their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4  104RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text) or munication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., ir nodality, 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 information from the timetable, learn about Russian holidays and typical meals.  Russian for Beginners Z5  student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understaticalized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. C magrammar is based on professional and technical texts and only includes items t	Z ubtechnical texts. I also develop the  Z ning various form be able to respond  Z sts with a certain p regular verbs, diff ee time), and pracedata (e.g., Siberial  Z unding, extracting sommunication sk on (verbal adjectivest, etc.)  KZ y projects of very of eir management.	Il be able to read  1 Students will be it vocabulary and  1 s of reading skills d so as to be  1 ercentage of ferences in verb crice oral and a), learn how to  1 and summarizing ills are trained on res, participles,  2 diverse character. Specific attention
the Russian alphabet (a short text with marker 04RZ2 The second semester able to communicate use master further gramma 04RZ3 The course is based or and listening) and introunderstood, and to expose of the course is based or unfamiliar words, oral of patterns from Czech, rowritten communication fill in forms, look up the 04RZ5 The course expects the information from a spee everyday topics. Study passive voice). Studen 01RSWP The course Project mather the course structure or is paid to software projects.	the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak d stress, understand its contents and summarize it.    Russian for Beginners Z2     The programme is designed to teach skills for basic communication in everyday situations and for reading easy and short stain gshort sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will tical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.    Russian for Beginners Z3     RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for traid duces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be ress their opinion. Writing skills will be trained on guided writing tasks and note-taking.    Russian for Beginners Z4     O4RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer text ommunication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., ir notality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, fron more specific topics (environment, addictions, the green movement). They become acquainted with various geographical information from the timetable, learn about Russian holidays and typical meals.    Russian for Beginners Z5	Z ubtechnical texts. I also develop the  Z ning various form be able to respond  Z sts with a certain p regular verbs, diff ee time), and pracedata (e.g., Siberial  Z unding, extracting sommunication sk on (verbal adjectivest, etc.)  KZ y projects of very of eir management.	Il be able to read  1 Students will be it vocabulary and  1 s of reading skills d so as to be  1 ercentage of ferences in verb crice oral and a), learn how to  1 and summarizing ills are trained on res, participles,  2 diverse character. Specific attention

01SSM1	Seminar of Contemporary Mathematics 1	Z	2
01SSM2	a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic	Z Z	natics.
	Seminar of Contemporary Mathematics 2 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic		
16SED1	Dosimetry Seminar 1	Z	2
The seminary is suppos	sed to motivate the student's interest in the field of dosimetry, especially in medical physics. Introductory lectures will be devo		
	following lectures are given by the former students of DDAIR, who are currently employed in various organizations (SÚRO,	v.v.i., ÚJF AV R v	v.v.i., ÚJV ež,
	loce, FN v Motole, PTC Czech s.r.o.).	7	
16SED2	Dosimetry Seminar 2 (iolume is a constant) Dosimetry Seminar 2 (iolume) Hossimetry Seminary students will listen to the lectures of the older students of DDAIR. The older students give le	Z	2
	heses. The course also introduces the principles of creating good presentation and advice for working with scientific literature		progress on the
01SMB1	Seminar on Calculus B1	Z	2
The course is devoted t	o support the lectures of Calculus B3.	1	
01SMB2	Seminar on Calculus B2	Z	2
The course is devoted t	o support the lectures of Calculus B4.		
01SOS1	Software Seminar 1	Z	2
	embly language programming for microprocessors Intel 80x86		
01SOS2	Software Seminar 2	Z	2
	+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix I ability to Microsoft Windows.	like operating syste	ems, especially
02SPRA1	Special Practicum 1	KZ	6
	ocused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chose		-
	experimental physics and metrology.		
02SPRA2	Special Practicum 2	KZ	6
	ocused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chose	en so that students	can familiarize
	experimental physics and metrology.		
01STR	Statistical Decision Theory	ZK	2
properties and applicab	to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutua	i comparisons witr	respect to their
11SFBM	Structure and Function of Biomolecules	Z,ZK	3
	Structure and Function of Biomolecules  lecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of		_
_	n relationship including macromolecular complexes.	,	
04SM1	Spanish for Intermediate Students M1	Z	1
_	for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-seme		•
	tention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, nega		
04SM2	and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts o		
	Spanish for Intermediate Students M3 e students for Intermediate Students M3 e students knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for	Z Z	in order to be
=	alized texts on the Internet.	specific purposes	in order to be
04SM3	Spanish for Intermediate Students M3	Z	1
	upplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acad	lemic style. They w	ill be competent
	net in Spanish and search for information of their specialization or field of interest. Students will use the information to write s	short articles and s	summaries. The
	nme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
04SP1	Spanish for Advanced Students P1	Z Z	1
of CEFR.	n more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communicat	ion. Course prefet	juisites: level b2
04SP2	Spanish for Advanced Students P2	Z	
	and part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and sy		1
written communication.	ind part of the advanced opanish codise, extending opanish for specific purposes topics. It comprises more grammar and sy		1 on independent
04SP3	and part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and sy		1 on independent
	Spanish for Advanced Students P3	rntax and focuses	1
	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	rntax and focuses	1
based on what students	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.	rntax and focuses  Z focused on written	1
based on what students 04SZ1	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1	rntax and focuses  Z focused on written	1 communication
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based on what students 04SZ1 Course 04SZ1 is the fir will be able to communi	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is will need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish	rntax and focuses  Z focused on written  Z damental gramma sh and will develop	1 communication  1 r structures and o it.
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based on what students 04SZ1 Course 04SZ1 is the fir will be able to communi 04SZ2 Course 04SZ2 is based	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is will need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish	Z focused on written  Z damental gramma sh and will develop Z as and lexis will be	1 communication  1 r structures and o it.  1 chosen so as
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based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 In course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure retand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrinish-speaking countries are also included.  Spanish for Beginners Z3 course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative	rotax and focuses  Z focused on written  Z damental gramma sh and will develop  Z ss and lexis will be ries and others su  Z of the Spanish-spe	1 communication  1 r structures and b it.  1 chosen so as ch as the Czech  1 aking countries,
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based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde  Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a given  04SZ4  The course is based on	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure retard short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrinish-speaking countries are also included.  Spanish for Beginners Z3 course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3	rotax and focuses  Z focused on written  Z damental gramma sh and will develop Z ss and lexis will be ries and others su  Z of the Spanish-spe re). It includes writt  Z ish speaking count	1 communication  1 r structures and b it.  1 chosen so as ch as the Czech  1 aking countries, en and oral  1 ries, mainly of
based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde  Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a giv  04SZ4  The course is based on Spain. It pays attention	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure retard short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrinish-speaking countries are also included.  Spanish for Beginners Z3 course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperativent general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3 course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish course SZ3.	rotax and focuses  Z focused on written  Z damental gramma sh and will develop Z ss and lexis will be ries and others su  Z of the Spanish-spe re). It includes writt  Z ish speaking count	1 communication  1 r structures and b it.  1 chosen so as ch as the Czech  1 aking countries, en and oral  1 ries, mainly of
based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a giv  04SZ4  The course is based on Spain. It pays attention to written and oral communi  04SZ5	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 If on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure restand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrinish-speaking countries are also included.  Spanish for Beginners Z3 course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3 course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanito further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of munication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z5	rotax and focuses  Z focused on written  Z damental gramma sh and will develop  Z es and lexis will be ries and others su  Z of the Spanish-spe re). It includes writt  Z ish speaking count the imperative, an	1 communication  1 r structures and o it.  1 chosen so as ch as the Czech  1 aking countries, en and oral  1 ries, mainly of d subjunctive),
based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a giv  04SZ4  The course is based on Spain. It pays attention to written and oral communi  04SZ5  The course books are se	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure restand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrish-speaking countries are also included.  Spanish for Beginners Z3 acourse SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3 acourse SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanito further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of munication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z5 supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanis	rotax and focuses  Z focused on written  Z damental gramma sh and will develop  Z es and lexis will be ries and others su  Z of the Spanish-spe re). It includes writt  Z ish speaking count the imperative, an	1 communication  1 r structures and o it.  1 chosen so as ch as the Czech  1 aking countries, en and oral  1 ries, mainly of d subjunctive),
based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a given of the course is based on Spain. It pays attention to written and oral communication on to written and oral communication on the written and oral communication of the course books are spart, the general Spain.	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure retains short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrish-speaking countries are also included.  Spanish for Beginners Z3 course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3 course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanito further grammar topics (periffrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of munication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z5 supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish course based on the course book will end with presentations and, finally, a written and oral examination.	rotax and focuses  Z focused on written  Z damental gramma sh and will develop  Z es and lexis will be ries and others su  Z of the Spanish-spe- re). It includes writt  Z ish speaking count the imperative, an  Z h for specific purpo	1 communication  1 restructures and of it.  1 chosen so as chas the Czech  1 aking countries, en and oral  1 ries, mainly of disubjunctive),  1 oses. In its final
based on what students  04SZ1  Course 04SZ1 is the fir will be able to communi  04SZ2  Course 04SZ2 is based to enable them to unde Republic. Realia of Spa  04SZ3  The course is based on mainly of Spain. It pays communication on a given of the course is based on Spain. It pays attention to written and oral communication on to written and oral communication on a given of the course books are spart, the general Spanis  14TM	Spanish for Advanced Students P3 al part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is swill need in their career.  Spanish for Beginners Z1 st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funcate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structure restand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrish-speaking countries are also included.  Spanish for Beginners Z3 acourse SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z3 acourse SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanito further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of munication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z5 supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanis	rotax and focuses  Z focused on written  Z damental gramma sh and will develop Z es and lexis will be ries and others su  Z of the Spanish-spe re). It includes writt  Z ish speaking count the imperative, an  Z h for specific purp	1 communication  1 restructures and of it.  1 chosen so as sch as the Czech  1 aking countries, en and oral  1 ries, mainly of disubjunctive),  1 oses. In its final

14TEM	Engineering Mechanics	Z,ZK	6
	Engineering Mechanics se represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and		-
	r, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.	<b>,</b>	
12TAIS	Ion Beam Techniques and Applications.	ZK	3
Production and for	ming of ion beam, charged particle optics, interaction of ion with solid matter, technological and analytical applications.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	11
TV-3	Physical education	Z	11
TV-4	Physical education	Z	1
01DYSY	Theory of Dynamic Systems	ZK	3
up the understandi detail, including sta explained with the e are also parameter 01TKO	es an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of system of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external sy the variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, emphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in derized using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, in the primer is on linear time-invariant systems, in the original systems.	stem descriptions are of observability, and realisetail. All stabilizing feedby	described in zations are back controllers
-	used in error detecting and error correcting codes.	717	
01TOP	Topology is the systematization and deepening the knowledge of general topology.	ZK	2
		7 7V	4
16MCRB	Transport of Ionizing Radiation and Monte Carlo Method ciples of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathe	Z,ZK	•
methods, and mod transport modeling	ent types of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometri eling of measured variables and parameters. Statistical evaluation of reliability of modeling results, variance reduction methods, , MCNP program, its possibilities and use. Procedures for the practical use of the program for typical tasks in the field of dosinction systems, radiation protection and medical applications.  Development of internet applications	program codes and to	ols for radiation
-	le an overview of modern technologies for the development of web applications. Students will learn basic web languages and	1	, etc.) and the
will also be introdu	ced to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the sir		
is oriented primaril	y towards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript.		
01DYK	Introduction to Continuum Dynamics	Z	2
	ntroduction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with	•	
	al forms, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensor		-
· · · · · · · · · · · · · · · · · · ·	le to derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differen I laws are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body.	iliai iorm. In the iast par	t of the course
16ZIVB	Introduction to Ecology	KZ	2
-	about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the	1	
	ainable development.	o on mornion and ora	uato 000.10111
02UFEC	Introduction to Elementary Particle Physics	Z	2
The course provide	es an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subj	ect are presented.	
11UFPLN The purpose of this	Introduction to Solid State Physics selecture is to introduce the undergraduate students to the study of the solid state physics.	ZK	2
17UINZ	Introduction to Engineering	Z,ZK	3
_	ted to an introduction to the engineering profession. Students will gradually learn the characteristics and specialties of engine	1 1	_
the basics of selec	ted engineering disciplines, such as the basics of materials science, manufacturing technology, quality control and assurance	and ecology. Further, t	he course will
	ues of 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
_	ture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic conce	•	
calculated by stude	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essenti	iai part of the lecture ar	e tne example
12ULT	Introduction to Laser Technique	Z,ZK	3
	magnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of		_
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 co	1	_
in a computational		·	
18UOA	Introduction into Object Oriented Architecture	Z,ZK	4
01UTIZ	Introduction to Theoretical Informatics	ZK	2
11UVOD	Introduction to Specialization	Z	2
The purpose of this	s lecture is to introduce the undergraduate students to the physical master degree study programmes.	· '	
12VAK	Vacuum Physics and Technology	KZ	4
-	asic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporations are approximately processed by the surface of solid surface; sorption, desorption; evaporations are approximately processed by the surface of solid surface; sorption are surface of solid surface; sorption are surface of solid surface; sorption, desorption; evaporations are surface of solid surface; sorption are surface; sorpti	-	-
-	sr; Vacuum generation. Pumping process. Pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pump Materials and vacuum instalation parts. Practical exercises.	ing speed; gas flow, co	nauctivity,
12PYTH		Z	2
	Scientific Programming in Python  It is is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis	1	
	rse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or s	•	
	presearch. In the introductory part of the course, students learn the basic features of Python?from basic types to object orient		
greater part of the	course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy,		
	ow to generate efficient code, how to combine Python with other languages, what tools are available.		
12VTV	Scientific and Technical Computing	Z	2
The students get fa	amiliar with methods of solving of computational problems in the scientific and technical practice, and with methods of their pro ning in the Fortran language.	ogramming. The course	is oriented

	High Frequency and Impulse Circuitry	Z,ZK	2
The goals of course is	to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation	n solution, Gunn's	diodes, high
frequency technics, mi	crowaves guidelines, striplines, oscillators, amplifiers and pulse generators.		
17VYR	Research Reactors	ZK	2
	search reactors and their applications for the need of research and industry. Students get familiar with research reactor types	=	ental programme
	al equipment needed for particular applications and their specifics. The course is supported by technical visit to research reac		
12EPR1	Basic Electronics Practicum 1	KZ	ha prostiaum
consists of blocks lastii	m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation	on of the results. I	ne practicum
12EPR2	Basic Electronics Practicum 2	KZ	3
	Basic Electronics Practicum 2 m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation	1	_
consists of blocks lastin	, , , , , , , , , , , , , , , , , , , ,	on or the results. I	The practicum
12ZPLT	Basic Laser Technique Laboratory	KZ	6
	AG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmo	1	_
	ld:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto-	-	,
12ZPOP	Basic Optical Laboratory	KZ	6
_	es give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborated.		
18ZALG	Basics of Algorithmization	Z,ZK	4
	to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the	1 '	olexity.
16AMMB	Fundamentals of Analytical Measurement Methods	ZK	2
Basic principles, techn	cal performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, t	itration methods, p	ootentiometry,
polarography, refractor	netry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-	ray structural ana	lysis, nuclear
	spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography.		
16ZBAF1	Fundamentals of Human Biology, Anatomy and Physiology 1	Z,ZK	4
"	ystems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul	•	•
	al human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system	m and its physiolog	gy. Respiratory
	of respiration. Excretory and genital tract.		
16ZBAF2	Fundamentals of Human Biology, Anatomy and Physiology 2	Z,ZK	4
	of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood a physiology of the visual authors. Additions and vestibular and physiology of becomes and physiology of the visual authors.	-	iew of nerves.
	d physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla		
16ZDOZ2	Fundamentals of Radiation Dosimetry 2	ZK	2
_	iical effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Princip ation of activity and neutron source emission. Measurements of absorbed dose and exposure.	nes and methods d	n measurements
16ZDOZ1		Z,ZK	4
	Fundamentals of Radiation Dosimetry 1 and objectives of description of sources, fields, interactions of ionizing radiation, ioniz	1 '	ļ -
r listory, development, a	and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of forfizing radiation, forfiz	alloris, effergy lia	noiei and
absorption, Fundamen	tals of the effects of ionizing radiation.		
	tals of the effects of ionizing radiation.  Rasics of Economic Assessment	7K	2
17ZEH	Basics of Economic Assessment	ZK	2 ent parts of
17ZEH The course focuses on		he basic compone	ent parts of
17ZEH The course focuses on microeconomics. Lectu	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and t	he basic compone	ent parts of
17ZEH The course focuses on microeconomics. Lectu	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and t res continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc	he basic compone	ent parts of
17ZEH The course focuses on microeconomics. Lectuenergy resources evaluated to the course of the cou	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and t res continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc ation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.	the basic compone c. and their applica	ent parts of tions in electrical
17ZEH The course focuses on microeconomics. Lectuenergy resources evaluated to the course of the cou	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etcation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics	ke basic components and their application KZ discourting to the solution of electrons.	ent parts of tions in electrical 3
17ZEH The course focuses on microeconomics. Lecturenergy resources evaluated them. Next, lectures defined and triacs). Lectures course for the course of the	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc iation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and all with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor components with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/or	ke basic components and their application.  KZ d solution of electronents with more	ent parts of tions in electrical 3 rical circuits with layers (thyristors
17ZEH The course focuses on microeconomics. Lecturenergy resources evaluent 17ZEL Lectures provide basic them. Next, lectures deand triacs). Lectures completed with electro	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc lation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and all with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor components.	ke basic components and their application KZ discounting solution of electronents with more digital converters.	ant parts of tions in electrical  3 rical circuits with layers (thyristors Lectures are
17ZEH The course focuses on microeconomics. Lecture energy resources evaluated them. Next, lectures deand triacs). Lectures completed with electro 12ZEL1	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc lation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor components with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/onic laboratory exercises.  Basic Electronics 1	KZ d solution of electronents with more digital converters.	ant parts of tions in electrical  3 rical circuits with layers (thyristors Lectures are
17ZEH The course focuses on microeconomics. Lecturenergy resources evaluenergy resources evaluenergy resources evaluenters. Next, lectures deand triacs). Lectures of completed with electroectroectric 12ZEL1 The subject provides p	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and trees continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc lation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and all with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor components unit be general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/onic laboratory exercises.  Basic Electronics 1 rimary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuits of the concerning principles of electronic circuits in both stationary and harmonic stable state. Circuits of the concerning principles of electronic circuits in both stationary and harmonic stable state.	KZ d solution of electronents with more digital converters.  Z,ZK rcuit analysis meth	ant parts of tions in electrical  3 rical circuits with layers (thyristors Lectures are
17ZEH The course focuses on microeconomics. Lecture energy resources evaluated them. Next, lectures of and triacs). Lectures of completed with electro 12ZEL1 The subject provides procircuits include symbol	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc lation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor component with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analogous includes a lating the service of circuits theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuit and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effects.	KZ d solution of electronents with more digital converters.  Z,ZK rcuit analysis mettects inside linear ci	3 rical circuits with layers (thyristors Lectures are  3 nods for linear rcuits.
17ZEH The course focuses on microeconomics. Lecturenergy resources evaluate them. Next, lectures deand triacs). Lectures completed with electro 12ZEL1 The subject provides procircuits include symbol 12ZEL2	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc ation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor component with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/onic laboratory exercises.  Basic Electronics 1 rimary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuit and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effects.	KZ d solution of electronents with more digital converters.  Z,ZK rcuit analysis methods in income care in inco	3 ical circuits with layers (thyristors Lectures are  3 nods for linear rcuits.
17ZEH The course focuses on microeconomics. Lecturenergy resources evaluate 17ZEL Lectures provide basic them. Next, lectures de and triacs). Lectures completed with electro 12ZEL1 The subject provides procircuits include symbol 12ZEL2 The subject follows up	Basics of Economic Assessment the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and tres continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc ation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP.  Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor component with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/onic laboratory exercises.  Basic Electronics 1 rimary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuits and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effective the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic	ke basic components and their application. AZ discontinuous discontinuou	3 ical circuits with layers (thyristors Lectures are  3 nods for linear reuits.  3 circuits field.
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02ZJFB	Nuclear Physics B	KZ	3
	esents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic do		
	behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.	main, whore maei	Tor our oldoolour
15ZKJE	Nuclear Power Plants Design and Operation	ZK	3
	reate basic knowledge of physics of nuclear reactors utilizing fission. Further explains arrangement of nuclear fuel, purpose, tech	I	_
-	construction of all components are defined wit regard to nuclear physics, physics of shielding, theory of regulation, material sci	_	
	construction of all components are defined wit regard to fluctear physics, physics of shielding, flueory of regulation, material sci lowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with		
· · · · · · · · · · · · · · · · · · ·	rategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuc		
	ste and spent fuel and their management.	ieai powei statioi	is. Illioittis abou
16MEZB	<u> </u>	Z,ZK	4
-	Fundamentals of Ionizing-Radiation Metrology tes the basic objectives and content of ionizing radiation metrology. It deals with the interpretation of radiation quantities and un		•
-	imental foundations of metrology, the determination of basic parameters of radiation. Lectures are supplemented with basic sur	ninary or relevant	legislation and
regulations.		-	
01ZOS	Introduction to Operating Systems	Z	2
	ure of operating systems. Processes, thread, memory management. Synchronization of multi=threaded applications. Memory management and the systems of the systems of the systems of the systems.		
12ZAOP	Fundamentals of Optics	Z,ZK	2
The lecture covers th	e very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geo	metrical optics. Th	ne main goal of
	n, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with res <sub>l</sub>		
work. Particular topic	s are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane wave:	s in vacuum (inclu	ding polarizatio
effects), and further f	om material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next	informs on conse	quences in
=	explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interferen		
of two-wave interferer	ice and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grap	hical form, includi	ng fundamental
	Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics		e on geometrica
approach imaging, su	obstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrument	ts.	
approach imaging, su			e on geometrica
approach imaging, su 01ZPB1	obstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrument	ts.	
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approach imaging, su 01ZPB1 16ZPSP The aim of the course resources available a	Introduction to Computer Security 1  Basic Work with PC is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is do	ts.  Z  Z  evoted to informatitor, spreadsheet a	2 2 ion systems and and presentation
approach imaging, su 01ZPB1 16ZPSP The aim of the course resources available a software) with exercise	Introduction to Computer Security 1  Basic Work with PC is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is do to the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text editor).	ts.  Z  Z  evoted to informat (itor, spreadsheet a or's and diploma the	2 2 ion systems and and presentation neses) and in
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## List of courses of this pass:

signal from the noise.

Code	Name of the course	Completion	Credits		
00EKOT	Economy in Technology	Z	1		
	The course introduces the basics of micro- and macroeconomics.		'		
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	Z	1		
	Review of basics of high school mathematics.		'		
00PT	Preparatory Week	Z	2		
00RET	Rhetoric	Z	1		
The course is focu	The course is focused on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the composition of public speech				
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	integral part of the	e course.		
00UPRA	Introduction to Law	Z	1		

00UPSY 01ALG	Introduction to Psychology	Z	1
	Algebra	ZK	4
After an introduction	n into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolean alge commutative fields.	bras, rings of poly	nomials over
01ALGE	Algebra	Z,ZK	6
	xioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the		
	ion 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.	nains, principal ide	eal domains,
01BPAM1 B	Bachelor Thesis 1 achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	Z preparation.	5
01BPAM2	Bachelor Thesis 2 achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	Z preparation.	10
01BSEM Bac	Bachelor Seminar  thelor seminar - technical details of bachelor thesis, format and processing, prerequisities, individual student presentations of their re	Z search results.	2
01DEM	History of Mathematics	Z	1
The subject has the	form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - g from the history of mathematics.	ive their talks on v	aroius topics
01DIFR	Differential Equations	Z,ZK	4
The course contain	s 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.	ne existence theor	ry, solution of
01DIM1	Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	Z	2
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 deve	oted to elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar str solution chosen from the given literature.	udents present a p	problem with
01DYK	Introduction to Continuum Dynamics	Z	2
This course is an	introduction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with em	phasis on vector	and tensor
	al forms, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensors or su		=
of which it is possib	le to derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differential forr these conservation laws are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body.	n. In the last part o	of the course
01DYSY	Theory of Dynamic Systems	ZK	3
="	es an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and	=	
· ·	ding of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system	descriptions are d	lescribed in
detali inciridina s			
	tate variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obse	•	zations are
explained with the e	emphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All	stabilizing feedba	zations are ck controllers
explained with the e	emphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All prized using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both or	stabilizing feedba	zations are ck controllers screte time.
explained with the e are also paramete 01FA1	emphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All	stabilizing feedba continuous and dis Z,ZK	zations are ck controllers screte time.
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01LAZ	Linear Algebra 1, Examination  The content of this subject is the exam in Linear Algebra 1.	ZK	2
01LIP	Linear Programming	Z,ZK	3
	oblems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given inequalities).		
01LNA1	Linear Algebra 1	Z	2
01MA1	The subject summarizes the most important notions and theorems related to the study of vector spaces.  Calculus 1	Z	4
01MAA2	Basic course of real analysis (functions of one real variable, differential calculus).  Calculus A2	Z,ZK	10
The sul	bject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the number series at		1 10
01MAA3	Calculus A3 Function sequences and series, foundation of topology, and differential calculus of several variables.	Z,ZK	10
01MAA4	Calculus A4 Integration of functions of several variables, measure theory, foundation of differential and integral calculus on manifolds and comp	Z,ZK plex analysis.	10
01MAB2	Calculus B2 Basic calculus (real analysis, indefinite and definite integrals and series).	Z,ZK	7
01MAB3	Calculus B3	Z,ZK	7
The course is devote	ed to functional sequences and series, theory of ordinary differential equations, theory of quadratic forms and surfaces, and general and prehilbert?s spaces.		ces, norme
01MAB4	Calculus B4 voted properties of functions of several variables, differential and integral calculus. Furthermore, the measure theory and theory of	Z,ZK	7 s studied
01MAN	Calculus 1	Z	4
04848848	Basic calculus (real analysis, functions of one real variable, differential calculus).	<u> </u>	<u>'</u>
01MANA	Calculus A 1, Examination  Examination of knowledge about stuff lectured in the 01MAN course.	ZK	6
01MANB	Calculus B 1, Examination  Examination of knowledge about stuff lectured in the 01MAN course.	ZK	4
01MAP	Calculus Plus	ZK	6
01MAPR 01MAS	Markov processes	Z,ZK ZK	4
tatistical models, fi	Mathematical Statistics - Seminar  oted to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation  nding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood  pothesis testing using the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric der	d, derivation of critica	
01MAZ	Calculus 1, Examination	ZK	4
01MCS	Mathematics for Particle Systems  Keywords: Asymptotic Expansions, Balanced Distributions, Dyson gases, Particle Chain, Statistical Rigidity, Nonlinear P	KZ PDE	3
01MIP	Measure and Probability	Z,ZK	6
•	ted to the introduction to Theory of probability on measure-theoretic level for discrete models, continuous distributions and general dexamples of distributions including multi-dimensional Gaussian distribution and their properties. Further the (non)+integral charactivary), convergence modes (Lp, P, a.s., D) and variants of limit theorems are derived (LLN, CLT).		
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 coefficient ne case of a continuous kernel on a compact set as well as Sturm-Liouville operators on bounded intervals, and applications of the	,	
01MMPV	to the solution of some boundary value problems and mixed problems.  Mathematical Models of Groundwater Flow	KZ	2
	des an overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to math problems. The second part is aimed at selected numerical methods, emphasizing implementation issues related to these methods.	ematical formulation	1
01NME2	Numerical Methods 2	KZ	2
	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equatior ary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial dif	•	s convertin
01NUM1 The course introdu	Numerical Mathematics 1  uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a go theoretical methods.	Z,ZK ood understanding of	the root of
01PERI Memory or	Programming of Peripherals Devices ganization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of pe	Z	2 vers
01POGR1 The first part of the tasurvey of fundame	Computer Graphics 1  two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state and problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and nowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of course the process of authoring scientific documents and presentations.	Z e of the art technolog d explanation of the co	2 gies. Furthe orresponding
01POGR2	Computer Graphics 2	Z	2
=	f the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phen- a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the descripti	•	
	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained		

at FNSPE. The algo	orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic using Blender, an open-source 3D modeling and rendering software instrument.	al concepts are de	monstrated
01POPJ1	Computers and Natural Language 1	Z	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, pr	_	
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	a good example fo	
•	mplex as natural languages. We cover several rather different approaches to the task as well as issues related to automatic and mar quality.		•
01POPR	Advanced Probability	Z	2
•	evoted to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We duft random variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parametric	•	١ -
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 statistical processing of observations and statistical parametric model estimation.		
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	or the specific exam	
01PROP	Programmer's Practicum s course is to acquire good programming habits which will help in writing of clean code, i.e. such that is easy to comprehend by othe	Z	2
	s course is to acquire good programming riabits which will help in whiting or clean code, i.e. such that is easy to comprehend by other g specific examples, the students get familiar with naming conventions, and continue through writing project documentation, principle		•
ranononanty. Com	debugging, up to creating object-oriented design, design patterns and refactoring.	o or doloriol vo prog	,rammig,
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	, ,	olmogorov
definition. The notice	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	orems are stated a	nd proved.
On the	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testi	ng are explained.	
01PRSTB	Probability and Statistics B	KZ	4
It is a basic course	e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	continuing till the K	olmogorov
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the		nd proved.
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing		
01PSL	LaTeX - Publication Instrument  The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	Z	2
01PW	Windows Programming graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identifica	Z	2
01RMF	The Equations of Mathematical Physics	Z,ZK	6
	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr	,	-
, ,	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01RSWP	Project Management of Software Projects	KZ	2
	management of software projects is dedicated to an explanation of general ideas, rules and procedures which are common to many pro		e character.
The course structur	re corresponds to a lifecycle of typical projects including many other aspects which have to be taken into account in the course of their n	nanagement. Speci	fic attention
	is paid to software project management and to IT projects in general. Interdisciplinary view of project management is emphasi	zed.	
01SITE1	Computer Networks 1	Z	2
_	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro	-	
	tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se		
01SITE2	Computer Networks 2	7	2
	history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro	_	_
_	tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth	<u>=</u> '	
(PKI). Use in pra	actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se	erial control lines, m	nodems)
01SM	Statistical Methods with Applications	ZK	2
The course cons	sists of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric m	ethods, contingend	y tables,
simulation of rando	m variables and their application. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete example are also included.	s by use of statistic	cal software
01SMB1	Seminar on Calculus B1	Z	2
01SMB2	The course is devoted to support the lectures of Calculus B3.  Seminar on Calculus B2	Z	2
UTSIVIDZ	The course is devoted to support the lectures of Calculus B4.		2
01SME	Statistical methods with applications	KZ	2
	sists of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric m		
	m variables and their application. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete example		
	are also included.		
01SOS1	Software Seminar 1	Z	2
	Java, Java Beans, Assembly language programming for microprocessors Intel 80x86	,	
01SOS2	Software Seminar 2	Z	2
Graphical libraries			
	GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like	operating systems,	especially
0400044	for Linux systems. Portability to Microsoft Windows.		
01SSM1	for Linux systems. Portability to Microsoft Windows.  Seminar of Contemporary Mathematics 1	Z	2
This seminar p	for Linux systems. Portability to Microsoft Windows.  Seminar of Contemporary Mathematics 1 provides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic	Z courses of mather	2 natics.
This seminar p	for Linux systems. Portability to Microsoft Windows.  Seminar of Contemporary Mathematics 1	Z courses of mather	2 matics.

01STR	Statistical Decision Theory	ZK	2
	statistical Decision Theory ed to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual co	l	
	properties and applicability.		.,,
01TKO	Theory of Codes	ZK	2
	Algebraic methods used in error detecting and error correcting codes.		1
01TOP	Topology	ZK	2
0411717	The aim of lecture is the systematization and deepening the knowledge of general topology.	71/	
01UTIZ	Introduction to Theoretical Informatics	ZK	2
01VYMA	Selected Topics in Mathematics ete orthogonal systems, expansion of functions into Fourier series, trigonometric Fourier series and their convergence. Complex ana	Z,ZK	4 holomorphi
Tourier series, compr	functions, integral, Cauchy's theorem, Cauchy's integral formula, singularities, Laurent series, residue theorem.	iyolo. delivative or	noiomorpini
01ZOS	Introduction to Operating Systems	Z	2
Introduction	on to structure of operating systems. Processes, thread, memory management. Synchronization of multi=threaded applications. Me	mory mapped files	S
01ZPB1	Introduction to Computer Security 1	Z	2
02AMS	Atomic and Molecular Spectroscopy	Z,ZK	4
000554	The lecture is devoted to atomic and molecular spectroscopy.	_	
02DEF1	History of Physics 1 se in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	Z	2 Physics in
	rchimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I	•	•
, , , , , , , , , , , , , , , , , , , ,	as experimental science. Newton and his work.	, g	
02DEF2	History of Physics 2	Z	2
	classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		
	nism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		
and relativistic phy	ysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear en	nergy, Elementary	particles,
02DRG	standard model. The concept of Nature and Universe of today.	Z	4
UZDKG	Differential Equations, Symmetries and Groups  The purpose of the lecture is to teach students computation of symmetries of the differential equations.		4
02ELMA	Electricity and Magnetism	Z,ZK	6
l l	lomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conductors and circuits and circuits, conductors and circuits and circuits and circuits.		_
theory. E	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, N	Maxwell equations	-
02EXF1	Experimental Physics 1	Z	2
	n introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method		
02EXF2	Experimental Physics 2	ZK	2
	n introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method		
02FYS1	Physical Seminar 1 voted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic	Z	2
	voted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical labor. ics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labor.	•	course or
02FYS2	Physical Seminar 2	Z	2
	voted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic	_	1
Electricity and I	Magnetism. The problems are chosen studied and presented by the students themselves, with the possibility to use PC and physical		ments.
02KF	Quantum Physics	Z,ZK	3
State description,	wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise	enberg uncertainty	principle,
201.054	quantization of angular momentum, solution of simple systems, hydrogen atom.	_	
02LCF1	Experimental Laboratory 1 Cavendish experiment. Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations.	Z	2
02LCF2	Experimental Laboratory 2	Z	2
UZLOFZ	Electric and magnetic field, microwaves, Xray and gamma rays, geometric optics		2
02MECH	Mechanics	Z	4
	s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimension	1	1
in central force fiel	d, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bod	y, rotation. Fundar	nentals of
	continuum mechanics, elasticity, hydrodynamics. Sound.		
02MECHZ	Mechanics - Examination	ZK	2
	The content of the subject is the examination according to the plan of studies.	_	_
02NSAD	Simulations and Data Analysis Tools	Z	2
02OR	Data analysis and simulations of high energy elementary particle collisions. ROOT and Pythia programs.  General Relativity	ZK	3
	General Relativity ral theory of relativity: principle of equivalence and principle of general covariance, parallel transport and geodesic equation, gravit	l	_
o golle	Einstein's gravitational law. Schwarzschild solution of the Einstein equations, homogeneous and isotropic cosmological mode		
02PRA1	Experimental Laboratory 1	KZ	6
	especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear E		1
=	interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the		
of the measurement	(acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati	on of results. At the	e same time
0000040	practically extendthe knowledge gained in lectures on physics.	1/7	
02PRA2	Experimental Laboratory 2 especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear E	KZ	6
	especially for students who intend to study some of the physical specializations of PNSPE(branch Physical Engineering, Nuclear E interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with th		
authority Studente			
-	(acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati		e same time
-			e same time
-	(acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluati practically extendthe knowledge gained in lectures on physics.  Seminar on Quark-Gluon Plasma 1		e same time
of the measurement	(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	

02RQGP2	Seminar on Quark-Gluon Plasma 2  The aim of the seminar is discuss the selection of the most fundamental articles in heavy ion physics.	Z	1 1
02SMF	Seminar of Mathematical Physics	Z	2
	ne seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm		1
	concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year		
02SPRA1	Special Practicum 1 hent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen s	KZ	6 an familiarize
1 Hydiod Hicaduren	with advanced pats of experimental physics and metrology.	o triat stadorits of	arriarrillarizo
02SPRA2	Special Practicum 2	KZ	6
Physics measurem	nent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen so	that students ca	an familiarize
02TEF1	with advanced pats of experimental physics and metrology.  Theoretical Physics 1	Z,ZK	4
	THEOFETICAL PHYSICS   troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism	•	1 1
	dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary		
problem, the moti	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. Th	ne subject is
02TEF2	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).  Theoretical Physics 2	Z,ZK	4
!	ITTEOFERICAL FTIYSIGS 2   Instormations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and	•	1
Minkowski space-ti	me. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic waves in dielectromagnetic waves in dielectr	agnetic radiation	in the dipole
02TER	Heat and Molecular Physics	Z,ZK	4
l .	n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic		- 1
02TSFA	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dist  Thermodynamics and Statistical Physics	Z,ZK	4
l .	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chateli	,	1
Basics of many bo	dy descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical	ensemble, Fermi	gas, models
0211550	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.	7	
02UFEC	Introduction to Elementary Particle Physics   se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su	Z hiect are present	2
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 for	or the curves are	introduced
Frenets formulae a	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of	of the lecture are	the examples
02VOAF	calculated by students  Waves, Optics and Atomic Physics	Z,ZK	6
l	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza	•	_
coherence. Geo	metrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro	glie waves,the So	chrodinger
02ZFM1	equation, stationary states and spectra of finite systems.	Z	2
_	Foundations of Physical Measurements 1 gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be a students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be a students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be a students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it can be a students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering).	<del>-</del>	- 1
	The goal of the lecture is to introducethe basics of physical measurements, the methods of processing and evaluation of acquired data		
0075140	basic habits of work in a physics lab.		
02ZFM2	Foundations of Physical Measurements 2  burse is devoted to the essentials of measurements of the most important physical quantities. It is especially recommended to those st	Z udents who are o	2 loing to study
1	s curricula - Physical engineering and Nuclear engineering. Also the methods of evaluation of statistical data using PC and practical wa	_	
	is involved. Students learn main rules connected with experimental work in physical laboratory.		
02ZJF	Nuclear Physics	Z,ZK	6
This scientific field	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domain intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic ph		our classical
02ZJFB	Nuclear Physics B	KZ	3
This scientific field	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domain		our classical
007014	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic photos distribution and Market	<u> </u>	
02ZSM Particles, leptons, I	Introduction to the Standard Model  adrons, baryons, mesons, symmetry, symmetry group, quarks, gluons, partons, standard model of electroweak and strong interaction	ZK ns. quantum chro	2 modvnamics
,	(QCD), cross section, scattering cross section.	-, -,	
04ABZK	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		
respective courses	s 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.	iii alion subjects.	As required,
04AKS	English Conversation	Z	1
The course will de	evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication		
1	or various communication situations and will master their communication strategy. They will also practise their listening skills in order to iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more con		d participate
04AM1	English for Intermediate Students M1	Z	1 1
The course is design	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	ommon Europea	n Framework
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of validations attended to the actual of a provided to the control of the control of a provided to the control of the control of a provided to the control of the control of a provided to the control of the c		
professional oral a	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical inte- extending the knowledge of grammar issues used in EAP.	erest. Attention is	also paid to
04AM2	English for Intermediate Students M2	Z	1
The 04AM2 course	expects the student to have completed the 04AM1 course. It develops their skills for work with subtechnical texts, focusing also more of	n specific gramm	
and lexical items ty	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided	writing. If necess	ary, grammar
	revision is included.		

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 f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication a	•	
ū	purse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation or 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	-	
•	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 Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament		
	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gr	=	
covers professiona	l oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (wr	iting a CV, letter of	application,
	polite request). If necessary, revision of selected grammar topics is included.		
04AP2	English for Advanced Students P2	Z	1
	is based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen b		- 1
	needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rheto tions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate´s independent work with and reading of ling	,	· .
	urse extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused or		٠ ا
	sentence and paragraph structure, linking, cohesion and coherence in texts.	3	3
04AP3	English for Advanced Students P3	Z	1
The 04AP3 course	is based on 04AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the te	xt. It includes train	ning oral and
	cation skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing	-	
possible, also prep	paring a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and inform	nal language both	in oral and
04APZK	written communication.	ZK	5
	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 abil		1 1
	ee 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a to		- 1
	study.	r	
04CESM1	Czech for foreigners - Intermediate	Z	1
The course is focus	sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the st	udent's vocabular	y for various
	social situations.		
04CESM2	Intermediate Czech 2	Z	1
The course develo	ops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readin in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.	g skills and trains	the student
04CESM3	Intermediate Czech 3	Z	1
	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	<del>-</del>	1 1
	lexicology and on developing the student's writing skills.	,	
04CESMZK	Czech for Intermediate Students Examination	ZK	4
The course conten	t 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	3M1,2,3 courses a	and can only
0.405054	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04CESP1	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 Europ	Z	f Poforonco
	rine course is very good knowledge of the czech language, i.e., communicative competences at least at level by of the common Europy on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sciences.		
	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S		ŭ
	includes communication with teachers and faculty administrators.		
04CESP2	Czech for Foreigners - Advanced	Z	1
This course extend	s the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and s	pecialist texts pla	icing greater
0.405050	emphasis on individual work.		
04CESP3	Czech for Foreigners - Advanced	Z	1 1
The course develop	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a student's project. Writing skills necessary for professional communication are trained.	ind, finally, presen	itation of the
04CESPZK	Czech for Foreign Students - Advanced Examination	ZK	5
	t is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04CE		
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		•
04FM1	French for Intermediate Students M1	Z	1
	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both w		
	ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to train	_	
	solve problems. 04FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, person	=	
	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo		
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 texts		
and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scien	nce and technolog	gy, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04FM3	French for Intermediate Students M3	Z	1 1
	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subores, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-clas		
	iture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work		
	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesic	-	

04FMZK	French for Intermediate Students Examination	ZK	4
	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o		
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the wel		
04FP1	French for Advanced Students P1	Z	1
	course The objective of this three-semester course is to improve and further develop communication in the French language in both w	-	
	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 tran	sactional letters, C	V, personal
statement, request	t, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture,	Paris. Topics of spe	ecialization:
	mathematics, internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interp	retation.	
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 g	iven topics. Feature	es typical of
	technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04FP3	French for Advanded Students P3	Z	1
The course is focus	, sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in en	gineering environm	ent. Special
skill - translation of	of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover	s a technical /appli	ed science
	topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
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	and is organized ac	cording to
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gradual and the examination gradual areas and the examination gradual areas are set of the presentation is included into the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation in the examination gradual areas are set of the presentation are set of the pres	ading.	
04FZ1	French for Beginners Z1	Z	1
French for beginne	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	ializing and in profe	essional life.
The course include	es French for specific / technical communication and reading of popular science and scientific texts. 04FZ1 The objective is to be able	to communicate at	elementary
level, actively u	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravc	lová, French for be	ginners
	za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe		•
	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	nciation and gramr	mar.
04FZ2	French for Beginners Z2	Z	1
The course is linking	ng up with 04FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of th	e textbook: Pravda	ı - Pravdová
_	nners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem		
thanking, travelling	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communion	cation. Specific topi	ics covered:
	How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04FZ3	French for Beginners Z3	Z	1
	upon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pr		-
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.	1	
04FZ4	French for Beginners Z4	Z	1
The course builds	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The co	ontents is roughly c	
The course builds lessons 19 - 23 of t	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The context book French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture	ontents is roughly c e notes French for I	Engineering
The course builds lessons 19 - 23 of t	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shopp	ontents is roughly c e notes French for I ing, weather, unive	Engineering
The course builds lessons 19 - 23 of the Students of FJFI.	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content to the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shopp country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.	ontents is roughly c e notes French for I ing, weather, unive et.	Engineering
The course builds lessons 19 - 23 of t Students of FJFI.  04FZ5	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content to the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet French for Beginners Z5	ontents is roughly on e notes French for I ing, weather, unive et.	Engineering ersity in our
The course builds lessons 19 - 23 of t Students of FJFI.  04FZ5  All four skills acqui	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shope country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet for Beginners Z5 red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They prepare a paper on a chosen popular science topic.	ontents is roughly c e notes French for I ing, weather, unive et.  Z resent it orally in the	Engineering ersity in our
The course builds lessons 19 - 23 of t Students of FJFI.  04FZ5  All four skills acqui general contents	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shope country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet French for Beginners Z5 red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They provided by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	ontents is roughly of e notes French for I ing, weather, unive et.  Z resent it orally in the pics: on physics fro	Engineering ersity in our  1 e class. The om lecture
The course builds lessons 19 - 23 of t Students of FJFI.  04FZ5  All four skills acqui general contents	up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The content textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shope country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They provide is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate class).	ontents is roughly of e notes French for I ing, weather, unive et.  Z resent it orally in the pics: on physics fro	Engineering ersity in our  1 e class. The om lecture
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04NP2	German for Advanced Students P2	Z	1
vocabulary range. I	os the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending tintroduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and project provides and text of explication, interview, askelerables, and more complex grammatical structures (i.e., subjunctive, indi-	actising formal com	
04NP3	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, india German for Advanced Students P3	rect speech).	1
The course consis	sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varience of a main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varience of a main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varience of the parts of the variety of t	-	situations
	ngineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.	· -	
· ·	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c practice to and from German.	-	
04NPZK	German for Advanced Students Examination	ZK	5
The course conter	of tis the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination cover the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrad		
	information is to be obtained from the teacher.		
04RM1 The course is designed.	Russian for Intermediate Students M1 gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (	Z Z	1 andwritten)
	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		
	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement I contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab	evel of the RZ2 cou	
04RM2	Russian for Intermediate Students M2 The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the	Z le timetable.	1
04RM3 The course develo	Russian for Intermediate Students M3 ps the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe	Z ever, for half of the ti	1 ime allotted
	in the timetable.		
04RMZK The course conter	Russian for Intermediate Students Examination It is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	ZK lge and skills acqui	4 red in RM1
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instr	-	
04RP1	Russian for Advanced Students P1	Z	1
The entrance req	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prac structures, understanding the fundamentals of technical language and training writing skills.	ticing more difficult	grammar
04RP2	Russian for Advanced Students P2	Z	1
The course is bas	sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve structures). Stress is put on independent oral and written communication.	erb aspects, specific	c syntactic
04RP3	Russian for Advanced Students P3	Z	1
The course is base	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing	r translation) The	PD1 - PD3
		-	
	nod previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The	e courses develop a	and expand
these skills. Further	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and with	e courses develop a ritten interpretation)	and expand ). Students
these skills. Further		e courses develop a ritten interpretation)	and expand ). Students
these skills. Furthedevelop their subte	er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and we echnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write according to the students and practice quick and correct communication in professional situations. They will be able to both speak write according to the students and practice quick and correct communication in professional situations. They will be able to both speak write according to the students' specialization, oral and will be able to both speak write according to the students' specialization, oral and will be able to both speak write according to the students' specialization, oral and will be able to both speak write according to the students' specialization.	e courses develop a ritten interpretation) urately and with con	and expand ). Students nfidence on
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04SM2 The course devel	Spanish for Intermediate Students M3 ps the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	Z ecific nurnoses in	order to be
The course devel	able to work with specialized texts on the Internet.	some purposes in	order to be
04SM3	Spanish for Intermediate Students M3	Z	1
The course books	re supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic	c style. They will be	e competent
enough to use the	nternet in Spanish and search for information of their specialization or field of interest. Students will use the information to write shor		maries. The
0.401.471/	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral example of the programme of the program		
04SMZK	Spanish for Intermediate Students Examination	ZK	4
The course conti	nt is the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for the wr obtained non-graded assessment for course 04SM3.Oral examination follows the written part.	illeri part, studerit	s will flave
04SP1	Spanish for Advanced Students P1	Z	1
	s on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.	Course prerequisi	tes: level B2
	of CEFR.		
04SP2	Spanish for Advanced Students P2	Ζ	1
Course SP2 is the	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax written communication.	and focuses on it	ndependent
04SP3	Spanish for Advanced Students P3	Z	1
	e final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	_	। nmunicatior
	based on what students will need in their career.		
04SPZK	Spanish for Advanced Students Examination	ZK	5
The course conte	it is the examination as given by the study plan. Examination 04SPZK consists of two parts, namely oral and written. The prerequisite	e for admission to	oral part is
	ving 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	Z	1
	e first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam	-	
	o communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa		
04SZ2	Spanish for Beginners Students Z2  ased on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures a	Z and levis will be ch	1
	nderstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries		
	Republic. Realia of Spanish-speaking countries are also included.		
04SZ3	Spanish for Beginners Z3	Z	1
The course is bas	d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	Spanish-speakin	g countries
mainly of Spain.	t pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative)	. It includes writter	n and oral
0.107.1	communication on a given general topic, for which the student is trained by reading texts or listening to them.		
04SZ4	Spanish for Beginners Z3 ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	Z	1 1
	tion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	-	-
	o written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenir		
04SZ5	Spanish for Beginners Z5	Z	1
The course books	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for		s. In its final
04SZZK	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examinat  Spanish for Beginners Examination	ZK	3
	ے Spanish for Beginners Examination nt is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	ΔN	1
	passed the written examination test.	amination only if h	
11ANEL		amination only if h	
The course is the	Linear Circuit Analysis	amination only if h	4
	Linear Circuit Analysis  ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of	Z,ZK priented to the unc	4
	Linear Circuit Analysis  ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipments.	Z,ZK priented to the und nent.	4 derstanding
11APLG	Linear Circuit Analysis  ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm  Applications of Group Theory in Solid State Physics	Z,ZK priented to the unchent.	4 derstanding 2
Consideration of	Linear Circuit Analysis  ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm  Applications of Group Theory in Solid State Physics tomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the	Z,ZK priented to the unchent.  ZK ere are and what in	4 derstanding 2 nteractions
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Consideration of and transitions be alone will provide.  11ELEA  11MIK The course is th  11SFBM Knowledge of mac  11UFPLN  11UVOD  11ZFPL Description of functions olids, various type	Linear Circuit Analysis  Introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm  Applications of Group Theory in Solid State Physics  tomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the ween them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information he application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environmen vibrations, and selection rules for optical absorption transitions.  Instrumentation and Measurement  The course is the introduction to the instrumentation and measurement for physicists.  Logical Circuits and Microprocessors  introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circumicroprocessors. The microcomputer architecture and principles of interfacing is shown.  Structure and Function of Biomolecules  omolecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of macroprocessors and its structure: function relationship including macromolecular complexes.  Introduction to Solid State Physics  The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.  Introduction to Specialization  The purpose of this lecture is to introduce the undergraduate students to the physical master degree study programmes.  Basic to Solid State Physics  amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic	Z,ZK  priented to the unchent.  ZK  ere are and what in on the object than the normal modes of the complex of t	4 derstanding  2 Interactions It symmetry of molecula  4 dircuits like  3 rall structure  2 en atoms ir es of crystals
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Consideration of and transitions be alone will provide.  11ELEA  11MIK The course is th  11SFBM Knowledge of mac  11UFPLN  11UVOD  11ZFPL Description of functions olids, various type are derived. The	Linear Circuit Analysis  Introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm  Applications of Group Theory in Solid State Physics  tomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the ween them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information he application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environmen vibrations, and selection rules for optical absorption transitions.  Instrumentation and Measurement  The course is the introduction to the instrumentation and measurement for physicists.  Logical Circuits and Microprocessors  introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circumicroprocessors. The microcomputer architecture and principles of interfacing is shown.  Structure and Function of Biomolecules  omolecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of macroprocessors and its structure: function relationship including macromolecular complexes.  Introduction to Solid State Physics  The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.  Introduction to Specialization  The purpose of this lecture is to introduce the undergraduate students to the physical master degree study programmes.  Basic to Solid State Physics  amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic	Z,ZK priented to the unchent.  ZK ere are and what in on the object than the normal modes of the complex of the	4 derstanding  2 Interactions t symmetry of molecular  2  4 dircuits like  3 rall structure  2  2 een atoms in se of crystals of electron
Consideration of and transitions be alone will provide.  11ELEA  11MIK The course is th  11SFBM Knowledge of mac  11UFPLN  11UVOD  11ZFPL Description of functions olids, various type are derived. The	Linear Circuit Analysis  ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm  Applications of Group Theory in Solid State Physics  tomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the ween them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information he application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environment vibrations, and selection rules for optical absorption transitions.  Instrumentation and Measurement  The course is the introduction to the instrumentation and measurement for physicists.  Logical Circuits and Microprocessors  introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circumicroprocessors. The microcomputer architecture and principles of interfacing is shown.  Structure and Function of Biomolecules  omolecular structure is crucial for the understanding of its function. The subject is focused on the introduction to building blocks of mac and its structure: function relationship including macromolecular complexes.  Introduction to Solid State Physics  The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.  Introduction to Specialization  The purpose of this lecture is to introduce the undergraduate students to the physical master degree study programmes.  Basic to Solid State Physics  amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding of crystalls and their properties are defined. The model of crystalline lattice dynamics in harmonic approximat	Z,ZK priented to the unchent.  ZK ere are and what in on the object than the normal modes of the complex of the	4 derstanding  2 Interactions t symmetry of molecular  2  4 dircuits like  3 rall structure  2  2 een atoms in es of crystals of electron

12AUX	Administration of UNIX System	KZ	2
15-5-	Basic and more advanced administration of Unix operating system		
12EGS1	English Graduate Standard 1	KZ	4
Improving the k	knowledge in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pr	oceedings to be p	ublished
12EPR1	Basic Electronics Practicum 1	KZ	3
The aim of the pr	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.		
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		' '
ino anno ino pri	consists of blocks lasting 4 hours.	or the results rive	practicani
12INS1		Z,ZK	2
	Information Systems 1		' '
	logy, architecture of the databases, network databases, cloud application Google, Microsoft, information managament, aproaches to so		
12INS2	Information Systems 2	Z,ZK	2
Graduation of Ir	formation systems 1 is required. In more details: Information technology, architecture of the databases, network databases, cloud ap	plication Google, N	/licrosoft,
	information managament, aproaches to solve task of information systems		
12LAS	Laser Systems	Z,ZK	3
Pulsed solid state	e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. C	Optical parametric o	generators
and raman lasers.	Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultrav	iolet lasers. X-ray la	asers. High
	power continuous lasers. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron I	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		undamental
I -	ethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersio		
	non-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optic		
12LT2	Laser Technique 2	Z,ZK	2
IZLIZ	Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking	۷,۷۱۲	
401405		71/	
12MOF	Molecular Physics	ZK	2
	ideas on multi-atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular struct		
12MPR1	Microprocessors 1	ZK	4
Microprocessor a	nd microcomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes( direct, indir	ect, register, relativ	/e,, stack
memory, procedure	e calls, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroassen	nbler, programming	languages.
	RISC processors - principles		
12MPR2	Microprocessors 2	ZK	2
Ar	chitecture IA-32. Data types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assemble	er. description.	
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		of tasks verv
1	icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computations		- 1
, , ,	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12NT	Nanotechnology	ZK	2
	duce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physica	1	
	gies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technologies		
	paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for hete		
1	cussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric layer		
growtho will bo dio	as well as soldering and encasement.	proparation will be	montioned
12DDD1		Z	
12PDR1	Data Communication and Interfaces 1		2
100000	Principles of computer networks, networks architectures and data transfer. Specification of existing network architectures.	_	
12PDR2	Data Communication and Interfaces 2	Z	2
	Principles of Ethernet standards and basics of protocol suite TCP/IP.		
12PEL1	Practical Electronics 1	Z,ZK	2
Recapitulation of	basics electronic, mathematical analyses of circuit solving. Measurement in electronic, measurement of frequency and phase. Analogous electronic, measurement of frequency and phase analogous electronic electro	gue to digital conve	erters and
	digital signal processing. Function of voltmeter, ampermeter, oscilloscope, spectral analyser and logical analyser.		
12PEL2	Practical Electronics 2	Z,ZK	2
	Noise analyses in electronics, low noise electronics system design. Noise measurement. Time measurement. Printed circuit de	esign.	'
12PIN1	Practical Informatics for Technics 1	Z	2
	pperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa		
	ing systems. Requirements on operating system for research and technical computing. Operating system UNIX. Basic principles, kernel, k		
	ibutes, working with files. Text editors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling process		
	priorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networks.		
load a process p	protocols TCP/IP. Network configuration of a computer. Network services: hardware sharing, mail, ftp, etc. Network application		oooo ana
12PIN2		Z	2
	Practical Informatics for Technics 2  d three semester course of basics and applications of informatics for science and engineering included as obligatory alternative cours	_	
i-ractically offerited		se. Constituent par	i is realized
4001110	in computer classrooms. The second part of the course is "Introduction to computer algebra systems?.	7	
12PIN3	Practical Informatics for Technics 3	Z	2
Practically oriented	d three semester course of basics and applications of informatics for science and engineering included as obligatory alternative course	se. Constituent par	t is realized
	in computer classrooms. The third part of the course is "Introduction to scientific computing?.		
12POAL	Computer Algebra	KZ	2
Lisp, representation	n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, s	implification, greate	est common
divisor, resultant,	derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subs	titution and pattern	matching,
algebraic programr	ning, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyl	ma, Mathematica),	miniproject.
12PSEM	Problem Seminary	Z	2
	th 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
The aim of this cou	rse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place	ed on effective solu	tions to real
•	purse 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	· -	- 1
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
407410	library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.	717	
12TAIS	Ion Beam Techniques and Applications.	ZK	3
401117	Production and forming of ion beam, charged particle optics, interaction of ion with solid matter, technological and analytical appli		
12ULT	Introduction to Laser Technique	Z,ZK	3
	ctromagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase		
12UMF	Introduction to Modern Physics	Z	3
The course is inten	ded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A in a computational laboratory.	part of the course	is delivered
40)//\/		1/7	4
12VAK	Vacuum Physics and Technology  basic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporation,	KZ	4
	. basic concepts and relations, now of rarefied gas. Interaction of gas with surface of solid surface, sorption, desorption, evaporation, itter; Vacuum generation. Pumping process. Pumps.Vacuum measurements: vacuum gauges of total and partial pressure; pumping s		
unough sonu ma	searching for leaks. Materials and vacuum instalation parts. Practical exercises.	peed, gas now, cor	iductivity,
12VFT	High Frequency and Impulse Circuitry	Z,ZK	2
	rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation s		
The goals of coul	frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators.	olation, Caring an	Juco, riigiri
12VTV	Scientific and Technical Computing	Z	2
	familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their program	_	
The studente get	mainly to programming in the Fortran language.	ming. The course i	o orioritou
12ZAOP	Fundamentals of Optics	Z,ZK	2
	t undarrieritals of Optics the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome		
	otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respec		
	ics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in		
	ther from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in		
**	it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference		
of two-wave interfer	ence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic	al form, including fu	ndamentals
of grating diffraction	n. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit	. It takes notice on	geometrical
арр	proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optic	al instruments.	
12ZDP	Data Processing for Publishing	Z	2
Typography, comp	uter computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language	s for typesetting (T	eX, LaTeX,
HTML, XML,, p	publishing into www pages, cloud computing, commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, PP	S, PPSX, RFT, XL	S, XLSX),
	multimedial presentations, multimedial formats.		
12ZEL1	Basic Electronics 1	Z,ZK	3
The subject provide	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu	it analysis method	s for linear
circuits includ	e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff	ects inside linear c	ircuits.
12ZEL2	Basic Electronics 2	Z,ZK	3
<u>-</u>	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic the	emes of logical cir	cuits field.
12ZFP	Principles of Plasma Physics	Z,ZK	4
	gh 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 paramo		e explained.
	comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas ar		
12ZMD	Measurement and Data Processing	KZ	2
Basic knowledge f	or the measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeties,	data fitting, separa	ation of the
	signal from the noise.		
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, aco		
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 introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles.		
	and electron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different ty	-	
	ulations and tools used in microscopy and to the description of particular parts of the microscopes. Introduction to kinematic and dyna		
	and diffraction and imaging techniques are also covered. A particular attention is given to analytical methods and imaging technique		
14TEM	Engineering Mechanics	Z,ZK	6
Abstract: The cour	se represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strain a	inalysis of real stru	icture parts
4 4	(elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.	<b></b>	
14TM	Engineering Mechanics	Z,ZK	4
	esents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with the stress and strain and	-	
14ZZKS	Testing and Processing of Metals and Alloys	KZ	4
	ests, hardness, impact toughness, technological testing, fatigue testing, creep testing. Light microscopy, preparation of specimens for		
Casting, forming, w	relding, soldering, brazing, powder metallurgy, mechanical machining. Copper alloys, aluminium alloys, titanium alloys, special alloys o	r non-terrous meta	is. Iechnical
450111	drawing and CAD.	_	
15CH1	General Chemistry 1	Z	3
i ne most importan	t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical used in averaging	ise are illustrated b	y examples
	solved in exercises.		

15CH2	General Chemistry 2	Z,ZK	3
The subject is the c	continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using		the fact that
the validity of these	principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	illustrated by exam	ples solved
	in exercises.		
15CHEM	Analytical Calculations and Chemometry Principals	ZK	2
	basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors, basi		
-	nce testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing, sem	-	
solving, ilitalio	on stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in p spectrophotometry and separation methods, solving of complex forming equilibria.	otentiometry, could	orneury,
15DALCH	History of Alchemy and Chemistry	ZK	2
	les the overview of crafts with chemical and/or metallurgical basis. Development of alchemy from ancient times in China, India, and F		
	course is dedicated to Alchemy in Arabic world and various aspects of alchemy in Latin Europe. The influence of alchemical approach		
	advancement is illustrated.		
15INPR	Laboratory Practice in Instrumental Methods	KZ	4
	of students in the use of selected modern instrumental methods and techniques for solving some physico-chemical analytical and oth	ners problems. The	training is
carried	out in the laboratories of Czech Academy of Sciences (Institute of Physical Chemistry) and partly in laboratory at the Department of	Nuclear Chemistry.	
15ZKJE	Nuclear Power Plants Design and Operation	ZK	3
Target of lecture is t	o create basic knowledge of physics of nuclear reactors utilizing fission. Further explains arrangement of nuclear fuel, purpose, technologic	gical and material o	construction
of core. Function ar	nd construction of all components are defined wit regard to nuclear physics, physics of shielding, theory of regulation, material science	e, chemistry, heat t	ransfer and
dosimetry. Creat	tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with	other sources of e	nergy, to
environment and to	strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear	r power stations. Inf	forms about
	high level nuclear waste and spent fuel and their management.		
16AMMB	Fundamentals of Analytical Measurement Methods	ZK	2
	echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titra	· · · · · · · · · · · · · · · · · · ·	
polarography, refr	ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ra	y structural analysi	s, nuclear
40ADLD	magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography.	71/	
16APLB	Application of Ionizing Radiation in Analytical Methods	ZK	5
Subject The applica	tion of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiatio of technological processes.	n in the analysis an	u diagnosis
16EPAM	Exact Methods in Research of Historic Monuments	ZK	2
	of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiative	l I	_
	sm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence a		
	photogrammetry.		, ,
16FNZB	Problems of Non-ionizing Radiation	ZK	2
	on biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and method	ods used in fields o	f magnetic
	resonance and ultrasound as applied in various types of technical or medical equipment are given as well.		_
16KPR	Clinical Propaedeutic	ZK	2
Making students far	Clinical Propaedeutic miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical	ZK	
Making students far 16MCRB	Clinical Propaedeutic miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical Transport of Ionizing Radiation and Monte Carlo Method	ZK examinations and a	anaesthesia 4
Making students far 16MCRB Introduction to prin	Clinical Propaedeutic miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical Transport of Ionizing Radiation and Monte Carlo Method ciples of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathematica	ZK examinations and a Z,ZK I statistics. Physica	4 I models of
Making students far 16MCRB Introduction to prin interaction of differ	Clinical Propaedeutic  miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical  Transport of Ionizing Radiation and Monte Carlo Method  ciples of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathematica ent types of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometric model	ZK examinations and a Z,ZK I statistics. Physica el layout, source tel	4 I models of rm, scoring
Making students far 16MCRB Introduction to prin interaction of differ methods, and mode	Clinical Propaedeutic  miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical  Transport of Ionizing Radiation and Monte Carlo Method  ciples of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathematica ent types of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometric modeling of measured variables and parameters. Statistical evaluation of reliability of modeling results, variance reduction methods, progra	ZK examinations and a Z,ZK I statistics. Physica el layout, source tel m codes and tools for	4 I models of rm, scoring for radiation
Making students far 16MCRB Introduction to prin interaction of differ methods, and mode	Clinical Propaedeutic  miliar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemical  Transport of Ionizing Radiation and Monte Carlo Method  ciples of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathematica ent types of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometric model	ZK examinations and a Z,ZK I statistics. Physica el layout, source tel m codes and tools for	4 I models of rm, scoring for radiation
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16ZEDB	Basics of Experimantal Data Processing	ZK	2
	Statistical analysis of experimental data; univariate data; calibration; regression; multivariate data.	'	'
16ZIVB	Introduction to Ecology	KZ	2
The subject inform	about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the environments of the environment of	nment and evalua	ite economic
407.170	indicators and sustainable development.	71.	
16ZJTB	Nuclear Energy Facilities and Accelerators nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most im	ZK	2
	nuclear reactor and nuclear power plant, chain rission reaction development, main components of nuclear energetic reactor, most implements, fine in the reactor and proton synchrotrons, electron, and proton synchrotrons,	-	
riigir voltage acce	accelerators, targets.	cicotron and ion c	ources for
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		1
resources available	e at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text editor,	spreadsheet and	presentation
software) with exe	ercises in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bachelor's	s and diploma the	ses) and in
specific practice (he	ospitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and secur	ity. Completion of	independent
107010	home exercises and participation in exercises above 60% is a necessary condition for passing the course.	_	
16ZRAO	Basics of Radiation Protection	Z	2
	se is to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and cor ield. The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how it	-	
	ng of protective units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not requ		-
17ENF	Experimental Neutron Physics	KZ	2
	mainly focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, prope		1
	detection methods, neutron induced nuclear reactions, modification and adjustment of neutron field, science and industry neutron approximately account to the contract of the		-
with experimental d	lata processing and analysis. The lectures are supplemented with experimental practices in the field of neutron detection, determination	of delayed neutro	n properties,
study of neutron dif	fusion in various materials, preparation and characterisation of photo-neutron source and neutron source calibration. Experimental prac	tices will be runni	ng at training
	reactor VR-1 and in the neutron laboratory.		
17JARE	Nuclear Reactors	ZK	2
	power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety system		
_	jenerations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. Pres PWR (Westinghouse, KWU, Framatom). VVER-type reactors , Temelín nuclear power plant. Boiling water reactors. Heavy water react		, ,
	gas cooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF and		
	selection of proposed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in lo		
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	eted engineering disciplines, such as the basics of materials science, manufacturing technology, quality control and assurance and ec		e course will
	focus on some issues of R&D activities organization and on selected parts of technical drawings and the work with AutoCAI		
17VYR	Research Reactors	ZK	2
			_
	b experimental equipment peoded for particular applications and their specifies. The course is supported by technical visit to research	their experimenta	l programme
along wit	h experimental equipment needed for particular applications and their specifics. The course is supported by technical visit to research	their experimenta h reactor workplac	l programme ce.
along wit	h experimental equipment needed for particular applications and their specifics. The course is supported by technical visit to research  Basics of Economic Assessment	their experimenta h reactor workplad ZK	I programme ce.
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	set of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microeconomics	•	•
	this process and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Ind		
18MPT	Programming in MATLAB	KZ	5
rne subject acquair	its students with various programming techniques in the Matlab environment. The emphasis is placed on the differences in program compared to classical languages.	iming methodolog	jy in ivialiab
18MTL	Programming in MATLAB	Z,ZK	5
	nvironment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analys	,	1
Titroducing Matiab e	and geometric representation of results.	sis, statistics, alge	mumizauoi
18PAS	Pascal Programming	7	4
	ended mainly for students, with little or no experience in programming. It familiarizes the students with the basic concepts in program	_	1 -
	programming language.	· ·	
18PJ	Programming in Java	Z,ZK	5
'	This course is devoted to the Java platform and to the development of the basic types of applications for this platform.		
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.		
'	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		
18PRC2	Programming in C++ 2	KZ	4
			4
	Programming in C++ 2		4
This cou	Programming in C++ 2 rse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library	
This countries and the second	Programming in C++ 2 rse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture	Template Library. Z,ZK Z,ZK	4 4
This countries and the second	Programming in C++ 2 rse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture Basics of Algorithmization	Template Library. Z,ZK Z,ZK	4 4
This cou 18UOA 18ZALG This course is d 18ZPRO	Programming in C++ 2  Insection covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture  Basics of Algorithmization  evoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	Template Library.  Z,ZK  Z,ZK  the algorithm con	4 4 applexity. 4
This cou  18UOA  18ZALG  This course is course is course is interest.	Programming in C++ 2  Insective covers the object oriented programming and others advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture  Basics of Algorithmization  evoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming  ended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming language.	Template Library.  Z,ZK  Z,ZK  the algorithm con  Z  nming and with the	4 4 applexity. 4
This could have a second secon	Programming in C++ 2  Insective covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture  Basics of Algorithmization  evoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming  ended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	Template Library.  Z,ZK  Z,ZK the algorithm con  Z nming and with th	4 4 applexity. 4
This course is course is interest.	Programming in C++ 2  Insective covers the object oriented programming and others advanced constructs in the C+;+ programming language and the Standard Introduction into Object Oriented Architecture  Basics of Algorithmization  evoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming  ended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming language.	Template Library.  Z,ZK  Z,ZK  the algorithm con  Z  nming and with the	4 4 pplexity. 4 e Python
This cou  18UOA  18ZALG This course is of  18ZPRO This course is int  TV-1	Programming in C++ 2  Introduction into Object Oriented Architecture  Basics of Algorithmization  evoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming  ended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming language.  Physical Education	Template Library.  Z,ZK  Z,ZK the algorithm con  Z nming and with th	4 4 pplexity. 4 e Python

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