### Study plan

## Name of study plan: 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: Applied Mathematical Stochastic Methods

Type of study: Bachelor full-time

Required credits: 4

Elective courses credits: 176 Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 0

The role of the block: P

Code of the group: BSPAMSM1

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

Requirement credits in the group:

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

Credits in the group: 0

Note on the group: Examination in 01MANZ can be taken provided the assessment in 01MAN is

obtained. Examination in 01LALZ can be taken provided the assessment in 01LAL is obtained.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02ELMA	Electricity and Magnetism Iskender Yalcınkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.)	Z,ZK	6	4+2	L	Р
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		Р
01LALZ	Linear Algebra 1, exam Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		Р
01LAL2	Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		Р
01MAN	Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	Z	4	4+4		Р
01MANZ	Calculus 1, exam Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		Р
01MAN2	Calculus 2 Miroslav Kolá, Edita Pelantová, Maksym Dreval Edita Pelantová Maksym Dreval (Gar.)	Z,ZK	8	4P+4C		Р
02MECH	Mechanics David B e Antonín Hoskovec David B e (Gar.)	Z	4	4+2	Z	Р
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David Be, Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	Р
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	Р
18ZPRO	Basics of Programming Maksym Dreval, Nichita Vatamaniuc, Jan Vondruška, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BSPAMSM1 Name=BS P\_AMSMB 1st year

02ELMA	Electricity and Magnetism	Z,ZK	6
Electric charge, Co	ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and cir	rcuits, conductivity. Basics	of the relativity
theory. Electrodyna	mic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, N	Maxwell equations.	
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2. L	Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Ma	trices of linear mappings.	7. Frobenius
theorem.			
01LALZ	Linear Algebra 1, exam	ZK	2
01LAL2	Linear Algebra 2	Z,ZK	4
Outline: 1. Inverse r	matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Herm	nitian and quadratic forms	. 5. Scalar
product and orthogo	onality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inv	verse matrices. 2. Method	s of calculation
of determinants. 3.	Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orth	ogonality. Calculation of c	orthogonal
complements. 6. Ge	eometry exercises and examples. 7. Adjoint operators.		
01MAN	Calculus 1	Z	4
Basic calculus (real	l analysis, functions of one real variable, differential calculus).		
01MANZ	Calculus 1, exam	ZK	4
01MAN2	Calculus 2	Z,ZK	8
1. Continuation of d	lifferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, a	absolute and conditional c	onvergence 3.
Real and complex p	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theo	ory of integrals: primitives,	definite integra
(Riemann definition	n), techniques of integration and application of integrals, Generalized Riemann integral		
02MECH	Mechanics	Z	4
Introduction to phys	sics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle,	article, solving equations	of motion for
one-dimensional m	otion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body	problems, particle collisio	ns. Mechanics
of a rigid body, rota	tion.		
02MECHZ	Mechanics - Examination	ZK	2
The content of the	subject is the examination according to the plan of studies.	, ,	
THE CONTENT OF THE C		Z	2
00PT	Preparatory Week		_
	1 7	Z	4
00PT 18ZPRO	Preparatory Week  Basics of Programming  add mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in	Z	4

Code of the group: BSPAMSM2

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

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 8 courses

Credits in the group: 0

Note on the group:

Examination in 02TEF1 can be taken only if 02MECHZ in passed.

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
01ANB3	Calculus B 3 Miroslav Kolá , Milan Krbálek Milan Krbálek Miroslav Kolá (Gar.)	Z,ZK	8	4P+4C		Р
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá <b>Ji í Mikyška</b> Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		Р
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	Р
01SAM	Seminar of Applied Mathematics Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z	2	0P+2S		Р
02TEF1	Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.)	Z,ZK	4	2+2	Z	Р
01UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		Р
01UP2	Introduction to Probability 2 Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		Р
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	Р

#### Characteristics of the courses of this group of Study Plan: Code=BSPAMSM2 Name=BS P\_AMSMB 2nd year

O1ANB3 Calculus B 3

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

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

12NME1	Numerical Methods 1	Z,ZK	
	Numerical Methods   the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology	1 ' 1	4 ion of tooks vary
•			•
	ts (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated compr rogramming language as a demonstration tool. The seminars are held in computer laboratory.	national environme	ant MAI LAB IS
01SAM	Seminar of Applied Mathematics	7	2
	acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5.		<del>-</del>
	nics, sociology and psychology. 7. Application of random matrix theory.	bynamic pricing. o.	. Statistical
D2TEF1	Theoretical Physics 1	Z,ZK	4
Γhe course is an intro	duction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formali	1 ' 1	rent approaches
o description of dyna	amics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on element	ary 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 princip	les of mechanics. T	The subject is
he first part of the co	ourse of classical theoretical physics (02TEF1, 02TEF2).		
01UP1	Introduction to Probability 1	Z,ZK	3
I.Random trial with f	inite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and	geometry, Bertrand	ds paradox
1.Conditional probab	ility, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and me	ean value 6.Proble	ms involving the
calculation of mean v	value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants		
01UP2	Introduction to Probability 2	Z,ZK	3
I. One-dimensional of	continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introductio	n of probability an	d connection to
measure theory. 4. N	umerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristic	s. 6. Elementary m	nethods for point
estimations. 7. Gener	rating pseudorandom numbers from the selected distribution.		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
Nave phenomena in	mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polar	ization, interferenc	e, diffraction,
coherence. Geometri	cal optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de B	roglie waves,the So	chrodinger
equation, stationary	states and spectra of finite systems.		
ode of the	group: BSPAMSM3		
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Name of the group: BS P\_AMSMB 3rd year

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

Examination in 01RMAF can be taken only if all courses in Calculus and Linear Algebra are passed.

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Bachelor Thesis 1** 01BPAM1 Ζ 0+5Ρ Pavel Strachota, Václav K s Pavel Strachota Pavel Strachota (Gar.) **Bachelor Thesis 2** 7 01BPAM2 10 0+10 Р Pavel Strachota Pavel Strachota (Gar.) **Linear Programming** 01LIP Z,ZK Ζ 3 2+1 Ρ Jan Volec **Jan Volec** Jan Volec (Gar.) Markov processes 01MAPR Z,ZK 4 2+2Jan Vybíral **Jan Vybíral** Jan Vybíral (Gar.) **Mathematical Statistics** 01MAS ZK 3 2+0 Václav K s Václav K s Václav K s (Gar.) **Mathematical Statistics - Seminar** 01MASC Ζ 2 0+2Ρ Tomáš Hobza Tomáš Hobza (Gar.) **Matematics for Particle Systems** 01CAS Z.ZK 2P+1C Р Milan Krbálek Milan Krbálek (Gar.) Measure and Probability Václav K s, Tomáš Hobza Tomáš Hobza Václav K s (Gar.) 01MIP Z.ZK 6 4+2 Р **Equations of Mathematical Physics** 01RMAF Z,ZK 7 4P+2C Р Václav Klika Václav Klika (Gar.) **Bachelor Seminar** Ζ 01BASE 1 0P+2S Ρ Pavel Strachota Pavel Strachota (Gar.) Statistical Methods with Applications 01STME ZK 2 2P+0C Ρ Tomáš Hobza Tomáš Hobza (Gar.) Introduction to Machine Learning Ji í Franc, Jan Flusser Ji í Franc Jan Flusser (Gar.) **01USU** Z,ZK 2P+2C

Characteristics of the courses of this group of Study Plan: Code=BSPAMSM3 Name=BS P\_AMSMB 3rd year 01BPAM1 Bachelor Thesis 1 Ζ 5 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. 01LIP Z,ZK Linear Programming 3 We study special problems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by linear equations and/or linear inequalities. 01MAPR Markov processes Z,ZK

01MAS Mathematical Statistics 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.

Mathematical Statistics - Seminar

The subject is devoted to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation of 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, calculation of confidence intervals and non-parametric density estimation.

01CAS Matematics for Particle Systems

The aim of the course is to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especially, systems fulfilling a so-called balance property are analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statistical rigidity are examined

01MIP Measure and Probability 7.7K

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).

**Equations of Mathematical Physics** 

7.7K

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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).

01BASE Bachelor Seminar

In the first part of the seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requirements for bachelors degree projects at the faculty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral presentations of the current state of the research results achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possibilities of improving the students performance.

01STME Statistical Methods with Applications

The course consists of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric methods, contingency tables, and their application. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical software are also included.

01USU Introduction to Machine Learning Z.ZK

The aim of this course is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the basic methods of learning with the teacher, cluster analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practical applications. Exercises use Python and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical problems.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 4

The role of the block: PV

Code of the group: BSPAMSMPV2

Name of the group: BS P\_AMSM Required optional courses 2nd year

Requirement credits in the group: In this group you have to gain at least 4 credits

Requirement courses in the group:

Credits in the group: 4

Note on the group:

18PPY2

Student je povinen z uvedené skupiny předmětů získat alespoň 4 kredity.

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
18PMTL	Programming in MATLAB Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	Z	PV
18PPY2	Programming in Python 2 Jakub Klinkovský <b>Jakub Klinkovský</b> Jakub Klinkovský (Gar.)	Z	2	2S	Z	PV
18PPY3	Programming in Python 3 Rudolf Pecinovský Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2C	L	PV
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PV

#### Characteristics of the courses of this group of Study Plan: Code=BSPAMSMPV2 Name=BS P\_AMSM Required optional courses 2nd year

18PMTL	Programming in MATLAB	KZ	4
Introducing Matlab envi	ronment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic an	alysis, statistics, a	algorithmization
and geometric represer	ntation of results.		

Programming in Python 2 This course introduces students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar where each presented topic is

accompanied by a short demo of a real-world application in the specific field.

2

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18PPY3 Programming in Python 3 2

This advanced course is intended for students who have basic experience with programming in Python and using its libraries. It introduces students to advanced concepts of the Python language and modules they are based on.

Thermodynamics and Statistical Physics Z.ZK

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.

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

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

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

00EKOT	Economy in Technology	Z	1
The course introduces to	he basics of micro- and macroeconomics.	•	
00ETV	Ethics of Science and Technology	Z	1
00RET	Rhetoric	Z	1
The course is focused of	n 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	integral part of t	ne course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1

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

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

Credits in the group: 0 Note on the group:

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

04XSMZK	Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4	Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)  Section 1	ZK	4	Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3	L	PV
haracteristics of	the courses of this group of Study Plan: Code=BSPJAZYKYZK Na	me=BS P la	inguages	·	
04XAMZK	English for Intermediate Students Examination			ZK	4
	he examination as given by the study plan. The examination covers the AM1, AM2, and AM3	3 courses and co	onsists of two pa	1	in) and oral
	nt is expected to master the AM syllabus and demonstrate the ability to apply their knowledge		•	,	,
04XAPZK	English for Advanced Students Examination	, - 3	3	ZK	4
	ne examination as given by the study plan. The student is supposed to demonstrate masterin	g the AP3 syllah	us and the ahili	1	-
	s. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also	•			•
04XCESZZK	Czech for Foreigners Beginners - Examination	oral procentation	511 01 a topio 110	ZK	4
	he examination as given by the study plan. The examination consisting of a written and oral	part covers all th	no tonice of the		•
	cessful completion of all three courses. Detailed information is to be obtained from the teach	•	ie topics of the	04/10/20/21,2,3 000	ises and can
		lei.		71/	4
4XCESMZK	Czech for Intermediate Students Examination			ZK	. 4
	he examination as given by the study plan. The examination consisting of a written and oral	part covers all th	ne topics of the	CESM1,2,3 courses	s and can only
	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.				
4XCESPZK	Czech for Foreign Students - Advanced Examination			ZK	4
	he examination as given by the study plan. The examination consisting of a written and oral	part covers all th	ne topics of the	CESP1,2,3 courses	and can only
e taken after successf	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.				
)4XFMZK	French for Intermediate Students Examination			ZK	4
he content is the exam	nination as given by the study programme. The whole French programme is ended with an $\epsilon$	examination cove	ering the conten	nts of FM1-FM3. The	examination
onsists of a written and	d oral part and is organized according to Examination Instructions, a document available on	the web.			
4XFPZK	French for Advanced Students Examination			ZK	4
he whole French prog	ram is ended with an examination covering the contents of FP1-FP3. The examination cons	ists of a written a	and/or an oral p	part and is organized	according to
xamination Instruction	s, a document available on the web. Assessment of the presentation is included into the ex-	amination gradin	ıg.		
)4XFZZK	French for Beginners Examination			ZK	3
	nination as given by the study plan. The course is terminated with an examination consisting	of oral and writ	ten part. The ex	1	-
	tion. Its content covers the levels FZ1 - FZ5.	,			,
4XNMZK	German for Intermediate Students Examination			ZK	4
	ne examination as given by the study plan. The whole German for Intermediate Students Cou	irse is completed	d hy an examina		•
	ne courses NM1 - NM3. The oral part follows after passing the written part successfully and	· · · · · · · · · · · · · · · · · · ·	-	_	-
s to be obtained from the		and obtaining t	10 0 11 11110 0000	oomonii. Woro dolan	ou illiormation
04XNPZK	German for Advanced Students Examination			ZK	4
	German for Advanced Students Examination he examination as given by the study plan. The whole German for Advanced Students Cour	المعاملة معاملة	hu an avaminat		•
	ne courses NP1 - NP3. The oral part follows after passing the written part successfully and a	•	•	•	•
	ained from the teacher.	arter obtaining th	e 04IVI 5 uligia	lucu assessificiti. Wi	ore detailed
				71/	
)4XRMZK	Russian for Intermediate Students Examination			ZK	4
	he examination as given by the study plan. The course is completed by taking a written and		•	•	•
	gible for the oral examination only after a prior pass in RM3 and a successful written examin	iation. Students	are given instru		
)4XRPZK	Russian for Advanced Students Examination			ZK	4
	he examination as given by the study plan. The course is completed by taking a written and		-	-	
	gible for the oral examination only after a prior pass in RP3 and a successful written examin	ation. Students a	are given instruc	ctions by the teache	
14XR <i>77</i> K	Russian for Reginners Examination			7K	3

Russian for Beginners Examination

The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ1

- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher. ZK

Spanish for Intermediate Students Examination 04XSMZK The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written part, students will have obtained

non-graded assessment for course SM3. Oral examination follows the written part. Spanish for Advanced Students Examination 04XSPZK

**Spanish for Intermediate Students Examination** 

ΖK

The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is having passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.

Spanish for Beginners Examination

The course content is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination only if he/she has

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

The role of the block: V

passed the written examination test.

Code of the group: BSPAMSMV

Name of the group: BS P\_AMSM Optional courses

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
01TA	Algebra and Calculus in Applications Lubomíra Dvo áková, Edita Pelantová Lubomíra Dvo áková (Gar.)  Dvo áková (Gar.)	ZK	2	2P+0C		V
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex 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
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
01DIMA3	Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
01FKO	Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		٧
01FANA1	Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	5	2P+2C		V
02FYS1	Physical Seminar 1 Filip Petrásek (Gar.)	Z	2	0+2	Z	V
B0B36JUL	Julia for optimization and learning Milan Papež, Šimon Soldát, Václav Mácha Milan Papež Milan Papež (Gar.)	KZ	4	1P+3C	Z	V
04AKS	English Conversation  Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
00MAM1	Essentials of High School Course 1	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
18NES1	Neural Networks 1 Zuzana Pet í ková	KZ	5	2P+2C	L	V
18NES2	Neural Networks 2 František Vold ich, Zuzana Pet í ková Zuzana Pet í ková (Gar.)	KZ	3	0P+2C	L	V
01NME2	Numerical Methods 2 Michal Beneš Michal Beneš (Gar.)	KZ	2	2+0	L	V
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	V
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	V
01PGR1	Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		V
01PGR2	Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.)	Z,ZK	2	1P+1C		V
01PSR	Principles of Statistical Decision Making  Václav K s Václav K s Václav K s (Gar.)	ZK	2	2+0	L	V
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	KZ	4	2+2	L	V
18PPY1	Programming in Python 1  Jakub Klinkovský, Matej Mojzeš Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2C	L	V
18PPY2	Programming in Python 2  Jakub Klinkovský Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	28	Z	V
18PPY3	Programming in Python 3 Rudolf Pecinovský Jakub Klinkovský Jakub Klinkovský (Gar.)	Z	2	2C	L	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
01SSM1	Seminar of Contemporary Mathematics 1  Mat j Tušek Edita Pelantová (Gar.)	Z	2	0+2	Z	V
01SOS1	Software Seminar 1  Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	Z	V
01SOS2	Software Seminar 2  Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V

	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	V
14TED	Creating Electronic Documents Aleš Materna, Ji í Martin ík Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
17UING	Introduction to Engineering Jan Frýbort, Petr Haušild, Radek Mušálek Jan Frýbort (Gar.)	KZ	3	2P+1C	Z	V
02UKP1	Introduction to Curves and Surfaces Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	L	V
18UQI	Introduction to quantum informatics Aleš Wodecki Aleš Wodecki (Gar.)	Z	3	2P	L	V
12UNXAP	Introduction to UNIX Milan Kucha ik Milan Kucha ik (Gar.)	Z	2	1P+1C	L	V
12UVP	Introduction to Scientific Computing Milan Ši or Milan Ši or (Gar.)	Z	2	1P+1C	L	V
12PYTH	Scientific Programming in Python Pavel Váchal, Jakub Urban Pavel Váchal (Pavel Váchal (Gar.)	Z	2	0+2	L	V
18ZALG	Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
haracteristics	of the courses of this group of Study Plan: Code=BSPAMSMV Name	=BS P_AMS	M Optio	nal cours	es	
18PPY2	Programming in Python 2				Z	2
	es students to practical applications of the Python language in scientific as well as commercial	fields. The cours	se is a sem	inar where ea	ch presente	ed topic is
· · · · · · · · · · · · · · · · · · ·	hort demo of a real-world application in the specific field.			1	7	
18PPY3	Programming in Python 3	librarian Itinte-	- المحمد م <del>ن</del>	nte to advan	Z	2 of the Buth
	se is intended for students who have basic experience with programming in Python and using its les they are based on.	iivianes. Il Intl'00	เนบ <del>ย</del> ร รัเนติ6	ะแร เบ สนิงสิทิต	eu concepts	o or the Pyth
01TA	Algebra and Calculus in Applications				ZK	2
	Algebia and Calculus in Applications   Structures   Algebia and Calculus in Applications   In Applications   Structures	s concrete mathe	ematics Th	1		_
	are illustrated on problems from informatics.	o controlo main	omatioo. m		ionvalou by	problomo n
D2DEF1	History of Physics 1				Z	2
-	e in the system of sciences. The relationship of man and nature. Natural sciences in ancient Or	ientand Greece	Greek nati	   Iral nhilosonh	_	
	chimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B					•
	ence. Newton and his work.	•	, , ,	, ,0		. ,
02DEF2	History of Physics 2				7	2
-	sical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, c	ornuscular and w	ave annros	 ach Electricity	-	
•	nism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its	•				
	cs, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfor					•
	econcept of Nature and Universe of today.	a ana Boni. The	way to ride	icai cricigy, L	-icincinal y p	oai tiolos,
01DEM	History of Mathematics				Z	1
	instory of inathernatics form of regular seminars where the members of the department of mathematics, but also invited	denoakore eno	sialists in th	o fiold aivo t		
from the history of n	-	speakers - spec	Jansis III III	e lielu - give t	ileli taiks oii	varoius top
01DIM1					Z	2
	Discrete Mathematics 1 ted to elementary number theory and applications. It includes individual problem solving.				_	2
					Z	2
01DIM2	Discrete Mathematics 2				2	2
	ted to recurrence relations. It includes individual problem solving.				71/	
01DIMA3	Discrete Mathematics 3	and the alternation of the alternation	الماحد حالم بالداد		ZK	2
<del>-</del>	v problems and methods of their solving from various parts of discrete mathematics. The semir	nar includes indiv	iduai probie	em solving of	ones own c	noice from
-	For all one of Open law Variable					^
01FKO	Functions of Complex Variable	ampley analysis			Z,ZK	3
01FKO The course starts fro	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of c			ble are explai	ned in detail	: the derivat
01FKO The course starts fro of a complex functio	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of contain and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point	with respect to a	closed cur	ble are explai ve, Cauchy's	ned in detail integral theo	the derivatorem, Moren
of a complex functio theorem, roots of a h	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of c	with respect to a	closed cur	ble are explai ve, Cauchy's	ned in detail integral theo	: the derivat orem, Morer
The course starts from the course starts from the course starts from the complex function theorem, roots of a hard theorem.	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of continuation and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle.	with respect to a	closed cur	ble are explai ve, Cauchy's auchy estimat	ned in detail integral theo es, Laurent	the derivat orem, Morer series, resid
01FKO The course starts fro of a complex functio theorem, roots of a h theorem. 01FANA1	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of contain and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle.  Functional Analysis 1	with respect to a	closed cur	ble are explai ve, Cauchy's auchy estimat	ned in detail integral theo es, Laurent	the derivat orem, Moren series, resid
01FKO The course starts fro of a complex functio theorem, roots of a h theorem. 01FANA1 02FYS1	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of containing the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle.  Functional Analysis 1  Physical Seminar 1	with respect to a e, Liouville's theo	closed cur rem, the Ca	ble are explaive, Cauchy's auchy estimat	ned in detail integral theo es, Laurent	the derivatorem, Morenseries, resid
01FKO The course starts fro of a complex functio theorem, roots of a h theorem. 01FANA1 02FYS1 The seminar is devo	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of containing the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle.  Functional Analysis 1  Physical Seminar 1 ted to detailed study of interesting physical problems. It should help students to deeper unders	with respect to a e, Liouville's theo tanding of fundar	closed cur rem, the Ca	ble are explai ve, Cauchy's auchy estimat  Z physics prese	ned in detail integral theo es, Laurent  ZZK  Z ented in the o	the derivate the d
01FKO The course starts fro of a complex functio theorem, roots of a h theorem. 01FANA1 02FYS1 The seminar is devo	m outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of containing the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point olomorphic function, analytic continuation, isolated singularities, the maximum modulus principle.  Functional Analysis 1  Physical Seminar 1  ted to detailed study of interesting physical problems. It should help students to deeper unders olems are chosen, studied and presented by the students themselves, with the possibility to us	with respect to a e, Liouville's theo tanding of fundar	closed cur rem, the Ca	ble are explaive, Cauchy's auchy estimat  Z physics presery equipments	ned in detail integral theces, Laurent  ,ZK Z ented in the constant	the derivationem, Morer series, resident Series, resident Series
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00MAM2		_	
Review of basics of hi	Essentials of High School Math Course 2	Z	1
18NES1	Neural Networks 1	KZ	5
	"Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and	1	_
techniques. The goal	s to teach students how to apply these models and methods to solve practical tasks.		
18NES2	Neural Networks 2	KZ	3
	"Neural Networks 2" is to acquaint students with basic models of deep neural networks and teach them how to apply these mo	dels and methods	to solve practica
tasks.	Nivers wised Mathe de O	1/7	2
01NME2	Numerical Methods 2 to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equati	KZ	2 thods converting
	ems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential eq	•	illous converting
15CH1	General Chemistry 1	Z	3
	oncepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practi	ical use are illustra	_
solved in exercises.			
15CH2	General Chemistry 2	Z,ZK	3
	tinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us		
	inciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by	examples solved
in exercises. 01PGR1	Computer Graphics 1	Z,ZK	2
	Computer Graphics   o-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the st	1	
•	al problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems a		-
· ·	relationship of the course covers the applications of covers the	•	-
the process of author	ng scientific documents and presentations.		
01PGR2	Computer Graphics 2	Z,ZK	2
•	e two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a pher	•	•
• .	ell structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the descrip		
	t on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtain hm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of the	=	-
-	n-source 3D modeling and rendering software instrument.	orelical coricepts a	re demonstrated
01PSR	Principles of Statistical Decision Making	ZK	2
-	to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual	1	
properties and applica		·	•
18PRC1	Programming in C++ 1	Z	4
This course covers m	ainly the C programming language and non-object oriented features of the C++ language.		
18PRC2	Programming in C++ 2	KZ	4
	e object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Templat	,	
18PPY1	Programming in Python 1	Z	2
This course introduce:			
	students to advanced features of the Python language and common scientific packages. The course covers both object-oriented		
· -	ng part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages)	), data processing a	and visualization
01PSL	ng part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages)  LaTeX - Publication Instrument		
01PSL The course is devoted	ng part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages)  LaTeX - Publication Instrument  to the basics and facilities of computer typography, particularly to the system LaTeX	), data processing a	and visualization
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01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit	LaTeX - Publication Instrument Ito the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic  Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2  K+ and QL Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education  Physical Education  Physical education  Physical education  Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems; dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity  Creating Electronic Documents g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting troduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and by assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be included.	Z Courses of mather Z like operating syst  Z Z Like operating syst  Z Z Z Z Z Z Z Z Z Z Lations and entire  KZ ehavior, basics of	and visualization  2  matics.  2  ems, especially  1  1  1  4  eal and real gas. artition theorem  2  documents in an amanufacturing
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1	LaTeX - Publication Instrument  It to the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1  a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic  Software Seminar 1  sembly language programming for microprocessors Intel 80x86  Software Seminar 2  K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education  Physical Education  Physical education  Physical education  Physical education  Physical education  Creating Electronic Documents  g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentroduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and bit in the properties and bit	Z  Courses of mather Z  Itike operating syst  Z  Z  Z  Z  Z  Z  Z  Z  Z  Z  Z  Z  Z	and visualization  2  matics.  2  matics.  2  ems, especially  1  1  1  4  pal and real gas artition theorem  2  documents in an annufacturing
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1 The goal of the lecture	LaTeX - Publication Instrument Ito the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic  Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2  K+ and QL Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education  Physical Education  Physical education  Physical education  Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity  Creating Electronic Documents g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting troduction to Engineering Introduction to Engineering Introduction to Curves and Surfaces	Z courses of mather Z like operating syst  Z Z Like operating syst  Z Z Z Z Z Z Z Z Z Latations and entire  KZ ehavior, basics of the curves are	and visualization  2 matics.  2 matics.  2 ems, especially  1 1 1 4 eal and real gas. artition theorem 2 documents in an  3 manufacturing  2 e introduced
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1 The goal of the lecture	LaTeX - Publication Instrument Ito the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2 K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education Physical Education Physical education Physical education Physical education Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity Creating Electronic Documents g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting troduction to Engineering Introduction to Engineering Introduction to Gurves and Surfaces is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential	Z courses of mather Z like operating syst  Z Z Like operating syst  Z Z Z Z Z Z Z Z Z Latations and entire  KZ ehavior, basics of the curves are	and visualization  2  matics.  2  ems, especially  1  1  1  4  eal and real gas, artition theorem  2  documents in ar  3  manufacturing  2  e introduced
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1 The goal of the lectur Frenets formulae are calculated by students 18UQI	LaTeX - Publication Instrument to the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2 K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education Physical Education Physical education Physical education Physical education Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity Creating Electronic Documents g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting troduction to Engineering Introduction to Engineering Introduction to Gurves and Surfaces is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential is.  Introduction to quantum informatics	Z  Courses of mather Z  Itike operating syst  Z  Itike operating syst  Z  Z  Z  Z  Z  Z  Z  Z  Latations and entire  KZ  ehavior, basics of the lecture apart of the lecture a	and visualization  2  matics.  2  ems, especially  1  1  1  4  eal and real gas artition theorem  2  documents in an annufacturing  2  e introduced are the example  3
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1 The goal of the lectur Frenets formulae are calculated by students 18UQI Quantum information	LaTeX - Publication Instrument to the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic  Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2 K+ and 0t. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education  Physical Education  Physical education  Physical education  Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity  Creating Electronic Documents and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting throduction to Engineering Introduction to Engineering Introduction to Gurves and Surfaces is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concept explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential is.  Introduction to quantum informatics has been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis on	Z courses of mather Z like operating syst  Z Like operating syst  Z Z Z Z Z Z Z Z Z Latations and entire  KZ ehavior, basics of the lecture are part of the lecture are part of unumbers.	and visualization  2  matics.  2  matics.  2  ems, especially  1  1  1  4  eal and real gas, artition theorem  2  documents in ar  3  manufacturing  2  e introduced are the examples  3  ng. We discuss
01PSL The course is devoted 01SSM1 This seminar provides 01SOS1 Java, Java Beans, As 01SOS2 Graphical libraries GT for Linux systems. Po TV-1 TV-2 TV-3 TV-4 02TER Thermal expansion of entropy; non-chemica 14TED Basic skills for creatin office suite. 17UING This course provides and production, qualit 02UKP1 The goal of the lectur Frenets formulae are calculated by students 18UQI Quantum information	LaTeX - Publication Instrument to the basics and facilities of computer typography, particularly to the system LaTeX  Seminar of Contemporary Mathematics 1 a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic Software Seminar 1 sembly language programming for microprocessors Intel 80x86  Software Seminar 2 K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix tability to Microsoft Windows.  Physical Education Physical Education Physical education Physical education Physical education Heat and Molecular Physics materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyr systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity Creating Electronic Documents g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presenting troduction to Engineering Introduction to Engineering Introduction to Gurves and Surfaces is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential is.  Introduction to quantum informatics	Z courses of mather Z like operating syst  Z Like operating syst  Z Z Z Z Z Z Z Z Z Latations and entire  KZ ehavior, basics of the lecture are part of the lecture are part of unumbers.	and visualization  2  matics.  2  matics.  2  ems, especially  1  1  1  4  eal and real gas artition theorem 2 documents in an  3 manufacturing  2 e introduced are the examples  3  ng. We discuss

12UNXAP Introduction to UNIX Computer and operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface. Hardware and software. Principles of operating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with files. Text editors: vi, emacs. Command interpreter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a computer. Network services: hardware sharing, mail, scp, etc. Network applications 12UVP Introduction to Scientific Computing Practically oriented Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with some basic tools fort scientific and technicval computing, data analysis, data visualisation and algorithm development. Scientific Programming in Python 12PYTH 2 The aim of this course is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is placed on effective solutions to real problems. The course is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or student theses. Students are also involved in ongoing research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or functional programming. The greater part of the course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy and the Matplotlib graphics

This course is devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the algorithm complexity.

Z.ZK

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

Basics of Algorithmization

library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.

Credits in the group: 0 Note on the group:

18ZALG

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **English for Intermediate Students M1** 04XAM1 Ζ 2 Ζ 0+2٧ **English for Intermediate Students M2** 04XAM2 Ζ 2 0+2L Jana Ková ová **English for Intermediate Students M3** 04XAM3 Ζ 2 0+2Ζ Jana Ková ová **English for Advanced Students P1** 04XAP1 7 2 Ζ 0+2Jana Ková ová **English for Advanced Students P2** 04XAP2 Ζ 2 0+2L Jana Ková ová **English for Advanced Students P3** 04XAP3 Ζ 2 0+2Ζ Jana Ková ová Czech for Foreigners - Beginners 1 Ζ Ζ 04XCESZ1 2 0+2V Jana Ková ová Jana Ková ová (Gar.) Czech for Foreigners - Beginners 2 2 Ζ L 04XCESZ2 0+2V Jana Ková ová Jana Ková ová (Gar., Czech for Foreigners - Beginners 3 04XCESZ3 Ζ 2 **2S** Ζ ٧ Jana Ková ová Jana Ková ová (Gar.) Czech for Foreigners - Intermediate 1 Ζ 2 Z 04XCESM1 0+2**Jana Ková ová** Jana Ková ová (Gar.) Czech for Foreigners - Intermediate 2 04XCESM2 Ζ 2 L 0+2**Jana Ková ová** Jana Ková ová (Gar., Czech for Foreigners - Intermediate 3 04XCESM3 Ζ 2 0+2Ζ Jana Ková ová Jana Ková ová (Gar.) Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.) 04XCESP1 Ζ 2 0+2Ζ Czech for Foreigners - Advanced 2 04XCESP2 Ζ 2 L 0+2V **Jana Ková ová** Jana Ková ová (Gar., Czech for Foreigners - Advanced 3 04XCESP3 7 2 7 0+2**Jana Ková ová** Jana Ková ová (Gar., French for Intermediate Students M1 04XFM1 Ζ 2 0+2Ζ ٧ V ra Šlechtová V ra Šlechtová (Gar.) French for Intermediate Students M2 2 04XFM2 Ζ L 0+2V ra Šlechtová V ra Šlechtová (Gar.) French for Intermediate Students M3 04XFM3 Ζ 2 0+2Ζ ٧ V ra Šlechtová V ra Šlechtová (Gar.) French for Advanced Students P1 Ζ 04XFP1 Ζ 2 0+2**/ ra Šlechtová** V ra Šlechtová (Gar. French for Advanced Students P2 Ζ 04XFP2 2 0+2L V ra Šlechtová V ra Šlechtová (Gar.) French for Advanded Students P3 04XFP3 Ζ 2 Ζ 0+2۱/ V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z1 04XFZ1 Ζ 2 0+4L V ra Šlechtová V ra Šlechtová (Gar.)

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

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

D4XAM1 | English for Intermediate Students M1 | Z | 2 |
The course is designed for students who have successfully completed the full secondary school English language course at least at the A2 level of the Common European Framework of Reference for Languages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of vocabulary and style typical of professional oral and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical interest. Attention is also paid to extending the knowledge of grammar issues used in EAP.

04XAM2 English for Intermediate Students M2 Z 2
The AM2 course expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on specific grammar, functions,

The AM2 course expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on specific grammar, functions, and lexical items typical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided writing. If necessary, grammar revision is included.

04XAM3	English for Intermediate Students M3	Z	2
·	eskills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtech sional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication	•	•
• .	also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentatio		
student's field.			
04XAP1	English for Advanced Students P1	Z	2
<del>-</del>	for students who have successfully completed the full secondary school English language course (at least the B1 level of the	-	
<del>-</del>	iges - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundaments of terms in mathematics and physics, definitions,		-
	and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing	•	. ,
•	sary, revision of selected grammar topics is included.	3	,
04XAP2	English for Advanced Students P2	Z	2
	d on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen to		- 1
	oncentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetor		
	ossible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistic student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal v	-	-
	king, cohesion and coherence in texts.		
04XAP3	English for Advanced Students P3	Z	2
	d on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. I	_	
	d functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing a green and information of the second of	-	•
aiso preparing a project communication.	on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.	guage both in ora	ii and written
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
The course is designed	for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic an	d grammar featur	es) and they will
	and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	on in the most co	mmon everyday
	overs roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.	<b>-</b>	
04XCESZ2	Czech for Foreigners - Beginners 2 nunication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and c	Z Conjugation system	2 m and practise
	pics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	oonjugation system	iii diid pidolise
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
The course further deve	lops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses o	n building up bas	c vocabulary,
	ion and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produ	· ·	
rrequent types of dialogi 1	ue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers rough	nly lessons 5-7 ir	n estina expres
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
ı	n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending th	_	- 1
social situations.			
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
· ·	e topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and rea on abbreviations, abbreviated words, and mathematical terms and formulas.	iding skills and tra	ins the student
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
ı	morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec		_
	oping the student's writing skills.		
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Eu		
	vision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of se to of engineering and professional communication, both in spoken and written form. The topics include University Studies and		I
=	with teachers and faculty administrators.		praduod
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical actions and the control of the contro	nd specialist texts	placing greater
emphasis on individual		7	
04XCESP3	Czech for Foreigners - Advanced 3 e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation	Z	2
•	g skills necessary for professional communication are trained.	ni, and, imany, pre	esentation of the
04XFM1	French for Intermediate Students M1	Z	2
French - intermediate Fi	M The objective of this three-semester course is to improve and further develop communication in the French language in both	th written and ora	I form. Students
	cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra-	-	
	problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, per		~ ~
	ture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work		-
04XFM2	French for Intermediate Students M2	Z	2
	M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science		
	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	ence and technolo	gy, French
04XFM3	chitects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3	Z	2
ı	n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (	_	_
	npound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl		
	specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	•	r French articles
and one's own knowled	ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and c	coherence.	

	French for Advanced Students P1	Z	2
	e objective of this three-semester course is to improve and further develop communication in the French language in both w		
	in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit geninger in the course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re		
•	it, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactions	-	-
	vert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top	•	
internet, physics, chemis	stry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2	French for Advanced Students P2	Z	2
	nts, the course further develops language skills. Focus is put on reading popular science texts and on oral communication of	n given topics. Fe	atures typical of
	ommunication are stressed (passive voice, nominalization, word formation).		
	French for Advanded Students P3	Z	2
	systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in		
	er texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cov k compiled from 3 French sources. Preparation of several set topics for oral examination.	vers a tecnnicai /a	pplied science
	French for Beginners Z1	Z	2
	e objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in	_	_
	nch for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able	-	
level, actively using the I	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdo	ová, French for be	ginners
	te ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions	• •	
	ple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncial	tion and grammar.	
	French for Beginners Z2	Z	2
	with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of		
•	dditional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem	•	
	of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm vork? A few expressions concerning the study. Name of University and Faculty.	iunication. Specific	topics covered.
	French for Beginners Z3	Z	2
	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F	_	
•	uations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in		_
•	leading covers short adapted texts of general interest first, and later popular science texts.		·
04XFZ4	French for Beginners Z4	Z	2
	FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The developed are skills are practiced.	contents is roughly	covered with
lessons 19 - 23 of the tex	tbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lea	cture notes French	for Engineering
	urse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	pping, weather, ur	niversity in our
	ow to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		
	French for Beginners Z5	Z	2
•	FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The red by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials.		
•	n science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl		
subjunctive clauses, ger		adooo, typical con	jariotiorio,
04XNM2		7	2
	German for Intermediate Students M2 her more complex grammatical structures and their application in communication based on technical texts, such as the relation	Z n between techno	_
The course introduces of	German for Intermediate Students M2	n between techno	ogy and society,
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04XRM2	Russian for Intermediate Students M2	Z	2
04XRM3	on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.  Russian for Intermediate Students M3	Z	2
	he knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, he		_
in the timetable.			
04XRP1	Russian for Advanced Students P1	Z	2
The entrance requirer	nent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pra	acticing more diff	icult grammar
structures, understan	ding the fundamentals of technical language and training writing skills.		
04XRP2	Russian for Advanced Students P2	Z	2
	on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives,	verb aspects, sp	ecific syntactic
	but on independent oral and written communication.		
04XRP3	Russian for Advanced Students P3	Z	2
	on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphras previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).		
• =	revious knowledge of general language at secondary lever (listering, reading, correct communication in everyday situations): rudy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and		
	nical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write a		•
technical topics.	· · · · · · · · · · · · · · · · · · ·	, , ,	
04XRZ1	Russian for Beginners Z1	Z	2
The course represent	s the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ	sian. Thus it begi	า ns with mastering
the Russian alphabet	(for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking	ing). Students wi	II be able to read
a short text with mark	ed stress, understand its contents and summarize it.		
04XRZ2	Russian for Beginners Z2	Z	2
	of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short su		
	using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will	also develop the	ir vocabulary and
	atical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.		<del>,                                      </del>
04XRZ3	Russian for Beginners Z3	Z	2
	on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for train	-	_
	oduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be	e able to respon	d so as to be
	press their opinion. Writing skills will be trained on guided writing tasks and note-taking.	Z	2
04XRZ4	Russian for Beginners Z4   n RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with	_	1
	ration in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verb		-
	imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a		-
=	ore specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g.	-	
		g., Obchaj, ican	I HOW to IIII III
forms, look up the info	ormation from the timetable, learn about Russian holidays and typical meals.	g., Olberia), icari	THOW TO HILL
forms, look up the info	ormation from the timetable, learn about Russian holidays and typical meals.  Russian for Beginners Z5	Z	2
04XRZ5		Z	2
04XRZ5 The course expects the information from a specific property of the course of th	Russian for Beginners Z5  e student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understangled lext) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Co	Z nding, extracting ommunication sk	2 and summarizing ills are trained or
04XRZ5 The course expects the information from a spreeveryday topics. Studies	Russian for Beginners Z5  The student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understangled text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Copying grammar is based on professional and technical texts and only includes items typically used in professional communication	Z nding, extracting ommunication sk n (verbal adjectiv	2 and summarizing ills are trained or
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04XRZ5 The course expects the information from a specyryday topics. Stude 04XSM1 The course is designed vocabulary and pays subjunctive), to writte 04XSM2 The course develops able to work with specy 04XSM3 The course books are enough to use the Integration of the program of CEFR. 04XSP1 Course concentrates of CEFR. 04XSP2 Course SP2 is the sewritten communication 04XSP3 Course SP3 is the fine based on what studer 04XSZ1 Course SZ1 is the first be able to communication 04XSZ2 Course SZ2 is based them to understand sealia of Spanish-specy outputs of the program of the spanish-specy of the spanish-specy of the subject of the spanish-specy of the spanish-s	Russian for Beginners Z5  Le student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understar scialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Copying grammar is based on professional and technical texts and only includes items typically used in professional communication at develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite reque Spanish for Intermediate Students M1 defor students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-seme attention to further grammar topics (e.g., perifrasis verbales, future imperfecte, direct object and indirect object pronouns, negating and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or Spanish for Intermediate Students M3  It is students whose long from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for stabilized texts on the Intermet.  Spanish for Intermediate Students M3  supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of acade arrent in Spanish and search for information of their specialization or field of interest. Students will use the information to write starting, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.  Spanish for Advanced Students P1  on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.  Spanish for Advanced Students P2  cond part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synt.  Spanish for Advanced Students P3  al part of the advanced Spanish course. It is based on texts chosen by the students according	Z Inding, extracting primition skin (verbal adjectivest, etc.)  Z Inster course devetive form of the interpretation of the interpret	2 and summarizing ills are trained or ves, participles, ills are trained or ves, participles, ills are trained on ves, participles, and m.  2 sin order to be  2 will be competent summaries. The very summaries. The very summaries ills are communication in the very summaries in the very summaries in the very summaries in the very summaries. The very summaries ills are very summaries in the v
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04XSZ4	Spanish for Beginners Z4	Z	2
The course is based on	course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spani	sh speaking coun	tries, mainly of
Spain. It pays attention	to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of	the imperative, an	d subjunctive),
to written and oral comr	nunication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.		
04XSZ5	Spanish for Beginners Z5	Z	2
The course books are s	upplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanisl	h for specific purp	oses. In its final
part, the general Spanis	sh course based on the course book will end with presentations and, finally, a written and oral examination.		

## List of courses of this pass:

00EKOT  00ETV 00MAM1	Name of the course	Completion	Credits
	Economy in Technology The course introduces the basics of micro- and macroeconomics.	Z	1
OOMAM1	Ethics of Science and Technology	Z	1
OOIVI/ (IVI I	Essentials of High School Course 1	Z	1
	Students are introduced to mathematical concepts and methods used in the introductory physics course.	'	
00MAM2	Essentials of High School Math Course 2  Review of basics of high school mathematics.	Z	1
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
1	d on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of put	lic speech
as well as to its nor	overbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	integral part of the	course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
side, Euler differential of set, completeness o	uation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coel equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and f space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fourier greence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total data and the calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total data and the calculus of functions of several equations are calculus of several equations.	d non-isolated poin er series, trigonome derivatives and tang	t, bounda etric Fouri
04 A NID 4			
01ANB4	Calculus B 4 t funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4] F	Z,ZK	6 ú zám na
	tézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstr ce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.		
01BASE	Bachelor Seminar	Z	1
projects at the faculty he research results ac	eminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral preser thieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possibility performance.	ntations of the curre lities of improving t	ent state o
11 B D A K // 1	Bachelor Thesis 1		
01BPAM1	alor's Dagrae project on the colocted tenis under the cupervision. Cupervision and regular checking of the backeler project under	Z	5
Bach	elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under	preparation.	
Bach	Bachelor Thesis 2	preparation.	5 10
01BPAM2 Bach	Bachelor Thesis 2 selected topic under the supervision. Supervision and regular checking of the bachalor project under	preparation.  Z preparation.	10
01BPAM2 Bach	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems	preparation.  Z preparation.  Z,ZK	10
Bach 01BPAM2 Bach 01CAS The aim of the course i	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems  s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial	preparation.  Z preparation.  Z,ZK ly, systems fulfilling	10 3 a so-calle
Bach 01BPAM2 Bach 01CAS The aim of the course i balance property a	Bachelor Thesis 2 selor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis	preparation.  Z preparation.  Z,ZK  ly, systems fulfilling stical rigidity are ex	10 3 a so-calle amined.
Bach  01BPAM2 Bach  01CAS The aim of the course i balance property a  01DEM	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems  s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  rm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gi	preparation.  Z preparation.  Z,ZK  ly, systems fulfilling atical rigidity are ex	10 3 y a so-calle amined.
Bach 01BPAM2 Bach 01CAS The aim of the course i balance property a 01DEM	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems  s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  rm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - giftom the history of mathematics.  Discrete Mathematics 1	preparation.  Z preparation.  Z,ZK  ly, systems fulfilling atical rigidity are ex	10 3 y a so-calle amined.
Bach  01BPAM2 Bach  01CAS The aim of the course i balance property a  01DEM The subject has the for	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  rm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gifter from the history of mathematics.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.	preparation.  Z preparation.  Z,ZK  Iy, systems fulfilling stical rigidity are ex  Z ive their talks on variations.	3 a so-calle amined. 1 roius topic
Bach  01BPAM2 Bach  01CAS  The aim of the course i balance property a  01DEM  The subject has the form	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  rm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - giften the history of mathematics.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2	preparation.  Z preparation.  Z,ZK  ly, systems fulfilling stical rigidity are ex  Z  Ive their talks on variation.	3 a so-calle amined. 1 roius topie
Bach  01BPAM2 Bach  01CAS The aim of the course i balance property a  01DEM The subject has the form  01DIM1  01DIM2	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  In of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - grant from the history of mathematics.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.	preparation.  Z preparation.  Z,ZK  Iy, systems fulfilling stical rigidity are ex  Z ive their talks on va  Z	10 3 y a so-calle amined. 1 roius topic 2
Bach  01BPAM2 Bach  01CAS She aim of the course is balance property a 01DEM She subject has the form of the subject has the form o1DIM1 She subject has the form o1DIM2 She subject has the form o1DIMA3 She subject has the form o1DIMAS She subj	Bachelor Thesis 2  elor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  rm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - giften the history of mathematics.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2	preparation.  Z preparation.  Z,ZK  Iy, systems fulfilling stical rigidity are ex  Z ive their talks on va  Z  Z  Z  ZK	10 3 y a so-calle amined. 1 roius topic 2 2
Bach  01BPAM2 Bach  01CAS She aim of the course is balance property a 01DEM She subject has the form of the subject has the form o1DIM1 She subject has the form o1DIM2 She subject has the form o1DIMA3 She subject has the form o1DIMAS She subj	Bachelor Thesis 2  eleor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under  Matematics for Particle Systems s to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial re analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statis  History of Mathematics  m of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - giften the history of mathematics.  Discrete Mathematics  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Discrete Mathematics 3  problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solving.	preparation.  Z preparation.  Z,ZK  Iy, systems fulfilling stical rigidity are ex  Z ive their talks on va  Z  Z  Z  ZK	10 3 y a so-calle amined. 1 roius topic 2 2

of a complex function and the Cauchy-Riemann equations, noiomorphic and analytic functions, the index of a point with respect to a closed curve, Cauchy's integral theorem, theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue theorem.

01LAL 1. Vector space, 2	Linear Algebra 1  Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of li	Z inear mappings, 7, I	2 Frobenius
700.0. 000.0.2	theorem.	appgo	
01LAL2	Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and	Z,ZK	4 5 Scalar
	ponality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matri	•	
	3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonalit		
	complements. 6. Geometry exercises and examples. 7. Adjoint operators.		
01LALZ	Linear Algebra 1, exam	ZK	2
01LIP	Linear Programming	Z,ZK	3
We study special p	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.	linear equations a	nd/or linear
01MAN	Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).	Z	4
01MAN2	Calculus 2	Z,ZK	8
1. Continuation of	differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute ar	nd conditional conve	ergence 3.
Real and complex p	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integr	als: primitives, defir	nite integral
0414417	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	714	4
01MANZ	Calculus 1, exam	ZK	4
01MAPR	Markov processes	Z,ZK	4
01MAS	Mathematical Statistics	ZK	3
•	voted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statistic		
estimators with	minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for h Neyman-Pearson lemma and likelihood ratio, confidence intervals and non-parametric density estimation.	ypotnesis testing u	ising the
01MASC	Mathematical Statistics - Seminar	Z	2
	voted to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation o		
	inding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood, or		
hy	pothesis testing using the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric densities	ty estimation.	
01MIP	Measure and Probability	Z,ZK	6
The subject is devo	ted to the introduction to Theory of probability on measure-theoretic level for discrete models, continuous distributions and general dis	tributions of randon	n variables.
We deal with the	examples of distributions including multi-dimensional Gaussian distribution and their properties. Further the (non)+integral characteristics of the control	stics of random var	riables (E,
	Var,), convergence modes (Lp, P, a.s., D) and variants of limit theorems are derived (LLN, CLT).		
01NME2	Numerical Methods 2	KZ	2
	ed to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. Dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differ		s converting
01PGR1	Computer Graphics 1	Z,ZK	2
	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of	_	
	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex	-	1
algorithms using k	knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com	puter graphics appi	roaches in
01PGR2	the process of authoring scientific documents and presentations.	Z,ZK	2
	Computer Graphics 2 of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenom		
	a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description		
• .	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in		
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	al concepts are de	monstrated
	using Blender, an open-source 3D modeling and rendering software instrument.		
01PSL	LaTeX - Publication Instrument	Z	2
	The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX		
01PSR	Principles of Statistical Decision Making	ZK	2
The subject is devo	ted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual cor properties and applicability.	riparisons with resp	pect to their
01RMAF	Equations of Mathematical Physics	Z,ZK	7
	Equations of Mathematical Frysics course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr		
The edojoet of the	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	anoiormationo, and	. colution of
01SAM	Seminar of Applied Mathematics	Z	2
	and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. Di	l I	
	predictions in economics, sociology and psychology. 7. Application of random matrix theory.		
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
0400111	for Linux systems. Portability to Microsoft Windows.		
01SSM1 This seminar r	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 matics.
01STME	Statistical Methods with Applications	ZK	2
	ts of selected methods of statistical data analysis such as: linear regression and correlation, analysis of variance, nonparametric met	l I	
	cation. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical softw		
01TA	Algebra and Calculus in Applications	ZK	2
We illustrate metho	ds based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems a	re motivated by pro	blems from
	informatics and they are illustrated on problems from informatics.		

01UP1	Introduction to Probability 1	Z,ZK	3
	with finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and g	-	
4.Conditional proba	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean		nvolving the
01UP2	calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants  Introduction to Probability 2	Z,ZK	3
	Introduction to Frobability 2 al continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction c	1 ' 1	-
	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6		
	estimations. 7. Generating pseudorandom numbers from the selected distribution.		
01USU	Introduction to Machine Learning	Z,ZK	4
	rise is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the		- 1
	r analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practi n and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from p		ercises use
02DEF1	History of Physics 1	7	2
-	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural phile	osophers, Aristotle.	
Helenistic period,	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo,	Huygens. The birth	of physics
	as experimental science. Newton and his work.		
02DEF2	History of Physics 2	Z	2
	if classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. I Vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.	-	
	shysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear e		
,	standard model. The concept of Nature and Universe of today.	3,7	,
02ELMA	Electricity and Magnetism	Z,ZK	6
_	oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conductors are dielectrics.	-	he relativity
	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves,	Maxwell equations.	
02FYS1	Physical Seminar 1		2
	devoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic anics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labor		course or
02MECH	Mechanics	7	4
	lysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	olving equations of	
one-dimensional n	notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems	particle collisions.	Mechanics
	of a rigid body, rotation.		
02MECHZ	Mechanics - Examination	ZK	2
02TEF1	The content of the subject is the examination according to the plan of studies.  Theoretical Physics 1	Z,ZK	4
	troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms	1	
to description of o	dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementar	y examples like the	two-body
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. The	subject is
OOTED	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).	Z.ZK	4
02TER Thermal expansion	Heat and Molecular Physics of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynam	_,,	
-	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dis		- 1
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chate		
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 g	jas, models
02UKP1	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.  Introduction to Curves and Surfaces	Z	2
	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts	1	
=	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part		
	calculated by students.		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
•	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza metrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Br		
concrence. Geol	equation, stationary states and spectra of finite systems.	oglie waves,the och	irodiriger
04AKS	English Conversation	Z	1
	evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communic	ation. The student w	vill develop
	or various communication situations and will master their communication strategy. They will also practise their listening skills in order		participate
	iscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more con	nfident speaker.	
04XAM1	English for Intermediate Students M1 gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the G	Common European	2 Framework
-	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of	•	
	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical in		
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more or pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guider		
aa ionioui iteriis ty	revision is included.		,, graniniai
04XAM3	English for Intermediate Students M3	Z	2
	os the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnic	1	
_	professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication		
equivalents. The co	ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation of student's field.	n a chosen topic re	elated to the
	Student Siletu.		

04XAMZK			
	English for Intermediate Students Examination	ZK	4
	nt is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts.		n) and oral
	O min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three En		
04XAP1	English for Advanced Students P1	Z	2
-	ned for students who have successfully completed the full secondary school English language course (at least the B1 level of the Co anguages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamenta	•	
	anguages - CEFK). It provides an introduction into English for Specific and Academic Purposes (ESF, EAF), i.e., into the fundamental of the specific and provides and physics, definitions, graph of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph of the provides and physics, definitions, graph of the provides and physics, definitions, graph of the provides and physics and physics and physics and physics and physics are provided by the provides and physics and physics are provided by the provides and physics and physics are provided by the pr	,	
-	oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (wri	-	-
,	polite request). If necessary, revision of selected grammar topics is included.	<b>J</b>	
04XAP2	English for Advanced Students P2	Z	2
The AP2 course is b	ased on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branch	ches of science.	According to
the students' needs	it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical	functions (e.g.,	various types
=	, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically		-
The course extends	the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing	ng including the	sentence and
	paragraph structure, linking, cohesion and coherence in texts.		
04XAP3	English for Advanced Students P3		2
	ased on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It inc	•	
	ls and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing roject on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal langu		-
also proparing a p	communication.	age both in oral	and witten
04XAPZK	English for Advanced Students Examination	ZK	4
	is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to ap		1
in the three AP of	ourses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from the	he student's field	d of study.
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
he course is focuse	ed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the stu	udent´s vocabula	ry for various
	social situations.		
04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develop	s the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading	g skills and train:	the student
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
The last course re	vises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especial	lly focused on st	ylistics and
	lexicology and on developing the student's writing skills.		
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
The course conten	is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESM	M1,2,3 courses a	and can only
- 0/0=0=/	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	_ Z	2
	he course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe		
	on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of scie al style of engineering and professional communication, both in spoken and written form. The topics include University Studies and St		•
basies of furicion	includes communication with teachers and faculty administrators.	tudent Ene. Witt	cii piactice
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and s		1.
	emphasis on individual work.	pooranot toxto p	aog groato.
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	s the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	<del>-</del>	I
•	student's project. Writing skills necessary for professional communication are trained.	, ,,,	
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
	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 CESF		ind can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2
he course is design	ned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and gra	ammar features)	and they will
cquire basic langua	age and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in	n the most comn	non everyday
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.		
04XCESZ2	Czech for Foreigners - Beginners 2	Z	2
The language and	communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conj	jugation system	and practise
	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.		
	Czech for Foreigners - Beginners 3	Z	2
04XCESZ3		oulding up basic	-
The course further	develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on b		
The course further king correct pronur	ciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce s	simple texts and	
The course further xing correct pronur	ciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce sologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leads to the covers roughly	simple texts and	
The course further xing correct pronur equent types of dia	ciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce sologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lead to the course roughly lead to the co	simple texts and lessons 5-7 in	eština expres
The course further xing correct pronur requent types of dia	ciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce sologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly 1.  Czech for Foreigners Beginners - Examination	simple texts and lessons 5-7 in	eština expres
The course further xing correct pronur equent types of dia	ciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leading to the course roughly leading to the covers roughly leading to th	simple texts and lessons 5-7 in	eština expres
The course further xing correct pronur equent types of dia 04XCESZZK The course conter	citation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leading to the course covers roughly leading to the course covers roughly leading.  Czech for Foreigners Beginners - Examination  It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04XC only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.	simple texts and lessons 5-7 in ZK CESZ1,2,3 cours	eština expres 4 ses and can
The course further xing correct pronur requent types of discourse conter 04XCESZZK The course conter 04XFM1	cication and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leading to the course covers roughly leading.  Czech for Foreigners Beginners - Examination It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04XC only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1	simple texts and lessons 5-7 in ZK CESZ1,2,3 cours	4 ses and can
The course further xing correct pronur requent types of dia 04XCESZZK The course conter 04XFM1	ciciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leading to the course covers roughly leading.  Czech for Foreigners Beginners - Examination  It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04XC only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1  The objective of this three-semester course is to improve and further develop communication in the French language in both w	simple texts and lessons 5-7 in ZK  CESZ1,2,3 cours  Z  ritten and oral for	4 dees and can 2 mm. Students
The course further xing correct pronur requent types of dia 04XCESZZK The course conter 04XFM1 French - intermedia will be able to correct recovery for the course further types.	cication and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly leading to the course covers roughly leading.  Czech for Foreigners Beginners - Examination It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04XC only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1	isimple texts and lessons 5-7 in ZK CESZ1,2,3 cours Z ritten and oral for smit general and	4 ses and can 2 rrm. Students d technical
The course further xing correct pronur requent types of dia 04XCESZZK The course conter 04XFM1 French - intermedia will be able to conformation and to s	cication and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly a cover in the	zK CESZ1,2,3 cours  Z ritten and oral for smit general an mizes and expar	4 ses and can  2 rm. Students d technical dds language
The course further xing correct pronur requent types of dia 04XCESZZK The course conter 04XFM1 French - intermedia will be able to conformation and to skills gained in previous records.	cication and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce stologue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly a cover in the course in texts. The course covers roughly a cover in the course covers roughly a cover in the cover in the covers and the covers all the topics of the 04XC cover in the cover in t	ZK CESZ1,2,3 cours  Z ritten and oral for smit general an mizes and exparal statement, recommendations.	4 ses and can  2 rm. Students d technical dds language juest, answel

04XFM2	French for Intermediate Students M2	Z	2
	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text Inguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie		
and scientine lai	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	nee and teermolog	y, i iciicii
04XFM3	French for Intermediate Students M3	Z	2
	sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub		
	res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class		
	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, cohesi	•	non articles
04XFMZK	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	l l	- 1
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the web	).	
04XFP1	French for Advanced Students P1	Z	2
	se The objective of this three-semester course is to improve and further develop communication in the French language in both writte		
	iicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repe		
	parfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le	· ·	-
request, answer to	an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics	of specialization: ma	athematics,
	internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation		
04XFP2	French for Advanced Students P2	Z	2
With the link to P1	contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on gi technical and scientific communication are stressed (passive voice, nominalization, word formation).	ven topics. Feature	es typical of
04XFP3	French for Advanded Students P3	7	2
	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in enc	- 1	
skill - translation o	f shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover	s a technical /appli	ed science
	topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFPZK	French for Advanced Students Examination	ZK	4
The whole French	n program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra	ŭ	cording to
04XFZ1	French for Beginners Z1	Z	2
-	rs The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soci		
	es French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
=	using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		- 1
	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		- 1
04XFZ2	French for Beginners Z2	Z	2
	ng up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the	_ ,	
French for Begin	ners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme	nt - disagreement,	apology,
thanking, travelling	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic	cation. Specific topi	cs covered:
047572	How does the machine work? A few expressions concerning the study. Name of University and Faculty.	Z	
04XFZ3 The course builts	French for Beginners Z3 upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra	_	2 Beginners.
	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info		
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4	French for Beginners Z4	Z	2
	up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor		
	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp		1
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, info	-	
04XFZ5	French for Beginners Z5	Z	2
•	red in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr	•	
_	is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate class)		
notes, success	subjunctive clauses, gerund, passive.	iuses, typicai conju	iricuoris,
04XFZZK	French for Beginners Examination	ZK	3
	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination	ation is ruled by the	e document
	Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNM1	German for Intermediate Students M1	Z	2
=	e course is to level off the students´ skills in the German language.The course focuses on revision of more difficult phenomena and st I processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu		
	sues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists	=	
	terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders		
04XNM2	German for Intermediate Students M2	Z	2
	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be		- 1
	peginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and of information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemation		
practice reading to	phenomena important for professional discourse (participles, relative clauses).	carry revises ourer g	, ammadal
04XNM3	German for Intermediate Students M3	Z	2
The course introduc	ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	tween technology	and society,
	peginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and of the computers and of the computer of the		
practise reading for	information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati- phenomena important for professional discourse (participles, relative clauses).	cally revises other g	grammatical
	prienomena important for professional discourse (participies, relative diauses).		

04XNMZK	German for Intermediate Students Examination	ZK	4
	t is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessm		
and oral, which co	is to be obtained from the teacher.	ent. More detailed i	Illomation
04XNP1	German for Advanced Students P1	Z	2
This course requir	res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level	led off at the begin	ning of the
	se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for decision).	•	
more difficult gramr	nar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on prac i.e., telephoning.	ctical everyday com	munication,
04XNP2	German for Advanced Students P2	Z	2
	os the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending		
vocabulary range. I	t introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra	actising formal com	munication,
	oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi	rect speech).	
04XNP3	German for Advanced Students P3		2
	sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variend car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the voca	-	
	igineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
students are traine	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The c	ourse also includes	s translation
0.47410714	practice to and from German.	714	
04XNPZK	German for Advanced Students Examination It is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c	ZK ansisting of two pa	4 rts - written
	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded		
•	information is to be obtained from the teacher.		
04XRM1	Russian for Intermediate Students M1	Z	2
-	gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (		
=	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement l		
they can dee ba	contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab		a100. 1110
04XRM2	Russian for Intermediate Students M2	Z	2
	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the		
04XRM3	Russian for Intermediate Students M3	Z	2
The course develop	os the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe in the timetable.	ever, for half of the t	ime allotted
04XRMZK	Russian for Intermediate Students Examination	ZK	4
	it is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled		
- PM3 Stud			
- KWS. Stud	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	ructions by the tead	cher.
04XRP1	Russian for Advanced Students P1	Z	2
04XRP1	Russian for Advanced Students P1 uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice.	Z	2
04XRP1 The entrance req	Russian for Advanced Students P1 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.	Z ticing more difficult	2 grammar
04XRP1 The entrance req 04XRP2	Russian for Advanced Students P1 uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice.	Z Z ticing more difficult	2 grammar 2
04XRP1 The entrance req 04XRP2	Russian for Advanced Students P1 uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2	Z Z ticing more difficult	2 grammar 2
04XRP1 The entrance req 04XRP2 The course is bas 04XRP3	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verticutures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3	Z ticing more difficult  Z rb aspects, specific	2 grammar 2 c syntactic 2
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is base	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2 sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verthe structures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing	Z ticing more difficult  Z rb aspects, specific  Z g, translation). The	grammar  2 c syntactic  2 RP1 - RP3
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is basecourses require go	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verticutures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3	Z ticing more difficult  Z rb aspects, specific  Z g, translation). The	grammar  2 c syntactic  2 RP1 - RP3 and expand
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is base courses require go these skills. Further	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2 sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, vertructures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The	Z ticing more difficult  Z rb aspects, specific  Z g, translation). The ecourses develop a citten interpretation	grammar  2 c syntactic  2 RP1 - RP3 and expand ). Students
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is base courses require go these skills. Furthed develop their subte	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verectory). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and witchnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write according to the students' specialization.	Z ticing more difficult  Z rb aspects, specific  Z g, translation). The e courses develop a ritten interpretation urately and with col	grammar  2 c syntactic  2 RP1 - RP3 and expand ). Students infidence on
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is base courses require go these skills. Furthed evelop their subte	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verectures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing of previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written paraphrasing technical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write according to the students' specialization oral and written paraphrasing technical topics.  Russian for Advanced Students Examination	ticing more difficult  Z  rb aspects, specific  Z  g, translation). The e courses develop a ritten interpretation urately and with cou	grammar  2 c syntactic  2 RP1 - RP3 and expand ). Students nfidence on
04XRP1 The entrance req 04XRP2 The course is base 04XRP3 The course is base courses require go these skills. Furthed evelop their subte 04XRPZK The course conter	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, vere structures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing of previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The er study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and witchnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write according to the students of the stu	ticing more difficult  Z  rb aspects, specific  Z  g, translation). The ecourses developerite interpretation urately and with college and skills acqui	grammar  2 c syntactic  2 RP1 - RP3 and expand ). Students infidence on  4 red in RP1
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04XRP1 The entrance req  04XRP2 The course is base  04XRP3 The course is base courses require go these skills. Furthe develop their subte  04XRPZK The course conter - RP3. Stud  04XRZ1 The course represe the Russian alphale  04XRZ2 The second semes able to communica  04XRZ3 The course is base and listening) an  04XRZ4 The course is base and listening) an  04XRZ4 The course is base and lostening of communication communi	Russian for Advanced Students P1  uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prace structures, understanding the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verecastructures). Stress is put on independent oral and written communication.  Russian for Advanced Students P3  ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The erstudy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written schnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write according to the students' specialization, oral and written continuous and practice quick and correct communication in professional situations. They will be able to both speak write according to the samination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled tents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instroped in the stress are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instroped in the stress and eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instroped in the stress and eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are eligible for the oral examination and virting skills and fu	ticing more difficult  Z  trb aspects, specific  Z  g, translation). The ecourses develop aritten interpretation urately and with courately and skills acquiructions by the teactory and states and skills acquiructions by the teactory and states and skills acquiructions by the teactory acquiructions acquiruction acquir	grammar  2 c syntactic  2 RP1 - RP3 and expand ). Students infidence on  4 red in RP1 wher.  2 ents will be abulary and  2 eading skills o as to be  2 of unfamiliar b patterns d written w to fill in  2 ummarizing

	studying grammar is based on professional and technical texts and only includes items typically used in professional communication (	-	participies,
	ve voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po		
04XRZZK	Russian for Beginners Examination	ZK	3
	at is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	-	
	ents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr	uctions by the tea	1
04XSM1	Spanish for Intermediate Students M1	Z	2
The course is des	signed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest	er course develop	s standard
	ays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negativ	•	
subjunctive	), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tex	ts or listening to the	nem.
04XSM2	Spanish for Intermediate Students M3	Z	2
The course develo	ps the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp	ecific purposes in	order to be
	able to work with specialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi	c style. They will b	e competent
	Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write shor		
· ·	final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex-	amination.	
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
	is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written parts.		ı ave obtained
The course comen	non-graded assessment for course SM3.Oral examination follows the written part.	art, otadorito wiii ric	210 001011100
04XSP1	Spanish for Advanced Students P1	7	2
	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.	_	1
Course concentrate	es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.  of CEFR.	Course prerequisi	iles. ievei dz
0.4)/000		7	
04XSP2	Spanish for Advanced Students P2	Z	2
Course SP2 is the	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta:	x and focuses on i	ndependent
	written communication.	_	
04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the t	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	ised on written cor	mmunication
	based on what students will need in their career.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a	admission to oral p	art is having
	passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the	e student.	
04XSZ1	Spanish for Beginners Z1	Z	2
Course SZ1 is the f	rirst stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	al grammar structi	ures and will
be able to	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	ish and will develo	p it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
			1
Course SZZ is base	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis	will be chosen so	as to enable
	ed on course 521, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis I short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other:		
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.		
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3	s such as the Cze	ch Republic.
04XSZ3 The course is base	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3  d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	s such as the Cze Z e Spanish-speakin	ch Republic.  2  ag countries,
04XSZ3 The course is base	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3	s such as the Cze Z e Spanish-speakin	ch Republic.  2  ag countries,
04XSZ3 The course is base mainly of Spain.	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3 ad on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lt pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative communication on a given general topic, for which the student is trained by reading texts or listening to them.	s such as the Cze Z e Spanish-speakin	ch Republic.  2 ag countries, n and oral
04XSZ3 The course is base mainly of Spain.  04XSZ4	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3 and on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lt pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative communication on a given general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z4	Z e Spanish-speakin ). It includes writte	ch Republic.  2 ng countries, n and oral  2
04XSZ3 The course is base mainly of Spain.  04XSZ4 The course is base	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3 and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lit pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative) communication on a given general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z4 ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	Z e Spanish-speakin ). It includes writte  Z speaking countrie	2 g countries, n and oral 2 s, mainly of
04XSZ3 The course is base mainly of Spain.  04XSZ4 The course is base Spain. It pays atter	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3 and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lit pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative) communication on a given general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z4 ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	Z e Spanish-speakin ). It includes writte  Z speaking countrie imperative, and s	2 g countries, n and oral 2 s, mainly of
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them to understand  04XSZ3 The course is base mainly of Spain.  04XSZ4 The course is base Spain. It pays atter  04XSZ5 The course books	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3  and on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lt pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative) communication on a given general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z4  ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish nition to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenin Spanish for Beginners Z5  are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for Beginners Examination  Spanish for Beginners Examination  ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral examination to two parts - written and oral.	Z e Spanish-speakin b. It includes writte  Z speaking countrie imperative, and s ng to them.  Z r specific purpose tion.  ZK	ch Republic.  2 gg countries, n and oral  2 s, mainly of ubjunctive),  2 s. In its final
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them to understand  04XSZ3 The course is base mainly of Spain.  04XSZ4 The course is base Spain. It pays attent  04XSZ5 The course books  04XSZZK The course conte	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other Realia of Spanish-speaking countries are also included.  Spanish for Beginners Z3  and on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the lt pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative) communication on a given general topic, for which the student is trained by reading texts or listening to them.  Spanish for Beginners Z4  ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish notion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening spanish for Beginners Z5  are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for Beginners Examination  Spanish for Beginners Examination  ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test.  Numerical Methods 1	Z e Spanish-speakin b. It includes writte  Z speaking countrie imperative, and s ng to them.  Z r specific purpose tion.  ZK amination only if h	ch Republic.  2 gg countries, n and oral  2 s, mainly of ubjunctive),  2 s. In its final  3 le/she has
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14TED	Creating Electronic Documents	Z	2
	ating and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentatio	_	_
sacro orano for oro	office suite.	no ana onino aco	amonto in ai
15CH1	General Chemistry 1	Z	3
	nt concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	_	_
me most importa	solved in exercises.	ise are illustrated	ву схаттрісс
15CH2	General Chemistry 2	Z,ZK	3
	continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using	· '	
=	e principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are	•	
and validity of thoo	in exercises.	muonatou by oxa	npioo ooivoc
17UING	Introduction to Engineering	KZ	3
	ides introduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and beha	1	_
	and production, quality assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be		a.ao.ag
18NES1	Neural Networks 1	KZ	5
	course "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth	l	_
The ann or the c	techniques. The goal is to teach students how to apply these models and methods to solve practical tasks.	ioi roidtod maoriii	io ioarriirig
18NES2	Neural Networks 2	KZ	3
	urse "Neural Networks 2" is to acquaint students with basic models of deep neural networks and teach them how to apply these models	l	_
31 110 000	tasks.		o p.aoiioai
18PMTL	Programming in MATLAB	KZ	4
	b environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy	l	1 -
oudoing mana	and geometric representation of results.	sio, otaliolioo, aige	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
18PPY1	Programming in Python 1	Z	2
	uces students to advanced features of the Python language and common scientific packages. The course covers both object-oriented as	_	_
	lowing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages), dat		
18PPY2	Programming in Python 2	7	2
-	oduces students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar wh	_	I
Tillo ocurco iriti	accompanied by a short demo of a real-world application in the specific field.	ioro odon procont	ou topio io
18PPY3	Programming in Python 3	Z	2
-	urse is intended for students who have basic experience with programming in Python and using its libraries. It introduces students to ad	_	
	language and modules they are based on.	, a. 100 a 00 100 p 10 1	oo . yo
18PRC1	Programming in C++ 1	Z	4
101 101	This course covers mainly the C programming language and non-object oriented features of the C++ language.	_	1 7
18PRC2	Programming in C++ 2	KZ	4
	course covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	1	+
18UQI	Introduction to quantum informatics	Z	3
	tion has been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis on quantum information theory with a strong emphasis on quantum information theory with a strong emphasis on quantum information.	_	1
	important quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the		
oomo or are moor	underpinning.	roquiono arriourit	
18ZALG	Basics of Algorithmization	Z,ZK	4
	is devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of		1
18ZPRO	Basics of Programming	7	4
	intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	nming and with th	I
Tilla courae la	programming language.	illing and with th	e i yulon
DODGE II II	· · · · · · · · · · · · · · · · · · ·	KZ	4
B0B36JUL	Julia for optimization and learning	l	1
	g language is increasingly known by the community for its suitability in the field of numerical calculations. The course consists of two page e second part introduces mathematical optimization and its application in machine learning, statistics and optimal control of differentia	•	
	e second part introduces mathematical optimization and its application in machine learning, statistics and optimal control of differential dual concepts of Julia, the second part combines them into longer logical sections of code. We explain each application theoretically. S	•	•
	nctions by themselves and compare them with already existing packages. The course ends with a final project. Students can either cha		•
•	aggle competition with real data. This course is also part of the inter-university programme prg.ai Minor. It pools the best of AI education	•	
theses or ioin a Ka	The second secon		
theses or join a Ka	with a deeper and broader insight into the field of artificial intelligence. More information is available at https://prg.ai/minor		
-	with a deeper and broader insight into the field of artificial intelligence. More information is available at https://prg.ai/minor		
TV-1	Physical Education	Z	1

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-07-03, time 22:01.

TV-4

Physical education

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