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: 0

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

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 0

The role of the block: P

Code of the group: 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 Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.)	Z,ZK	6	4+2	L	Р
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková 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 Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.)	Z	4	4+4		Р
01MANZ	Calculus 1, exam Miroslav Kolá, Pavel Strachota, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		Р
01MAN2	Calculus 2 Severin Pošta, Miroslav Kolá, Edita Pelantová Miroslav Kolá Severin Pošta (Gar.)	Z,ZK	8	4P+4C		Р
02MECH	Mechanics Iskender Yalcinkaya, David Be Michal Jex David Be (Gar.)	Z	4	4+2	Z	Р
02MECHZ	Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David Be, Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	Р
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	Р
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	Р
18ZPRO	Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	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
•	nb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, c	•	of the relativity
	forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,Maxwell e	; 	
01LAL	Linear Algebra 1	Z	2
•	ar dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of	of linear mappings.	7. Frobenius
theorem.			
01LALZ	Linear Algebra 1, exam	ZK	2
01LAL2	Linear Algebra 2	Z,ZK	4
Outline: 1. Inverse matr	ix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian a	nd quadratic forms	. 5. Scalar
١.	lity. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse r		
	culation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonal	lity. Calculation of c	orthogonal
<u> </u>	etry – exercises and examples. 7. Adjoint operators.		
01MAN	Calculus 1	Z	4
,	alysis, functions of one real variable, differential calculus).		
01MANZ	Calculus 1, exam	ZK	4
01MAN2	Calculus 2	Z,ZK	8
1. Continuation of differ	ential calculus: Taylor´s Polynomials, Taylor´s formula 2. Infinite series: criteria of convergence, operations on series, absolut	e and conditional c	onvergence 3.
Real and complex power	er series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of ir	ntegrals: primitives,	definite integral
(Riemann definition), te	chniques of integration and application of integrals, Generalized Riemann integral		
02MECH	Mechanics	Z	4
ntroduction to physics,	physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimen	sional equations of	motion, motion
in central force field, for	ces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bo	ody, rotation. Funda	mentals of
continuum mechanics,	elasticity, hydrodynamics. Sound.		
02MECHZ	Mechanics - Examination	ZK	2
The content of the subj	ect is the examination according to the plan of studies.		
00PT	Preparatory Week	Z	2
02TER	Heat and Molecular Physics	Z,ZK	4
Thermal expansion of r	naterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyn	amic principle, ide	al and real gas,
entropy; non-chemical	systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity	distribution, equipa	artition theorem.
18ZPRO	Basics of Programming	Z	4
This course is intended	mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	mming and with the	e Python
programming language			

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 10 courses

Credits in the group: 0

Note on the group:

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

Note on the gro	Jup. Examination in 621Er i can b	o tanton only	0==	۰ <u>–</u> ۲	accou.	
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 Miroslav Kolá Milan Krbálek (Gar.)	Z,ZK	8	4P+4C		Р
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá , Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		Р
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	Р
18PMTL	Programming in MATLAB Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.)	KZ	4	4C	Z	Р
01SAM	Seminar of Applied Mathematics Václav Klika Václav Klika Václav Klika (Gar.)	Z	2	0P+2S		Р
02TEF1	Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.)	Z,ZK	4	2+2	Z	Р
02TSFA	Thermodynamics and Statistical Physics Jaroslav Novotný, Igor Jex Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	Р
01UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		Р
01UP2	Introduction to Probability 2 Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		Р
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BSPAMSM2 Name=BS P_AMSMB 2nd year

01ANB3 Calculus B 3 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional series, power series, Series Expansion, Taylor's theorem, 2, Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation of variables, homogeneous equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficients and special right-hand side, Euler differential equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and non-isolated point, boundary of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fourier series, trigonometric Fourier series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total derivatives and tangent plane, Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations. 01ANB4 Calculus B 4 6 7.7K [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. Numerical Methods 1 There are explained the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computational environment MATLAB is used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. Programming in MATLAB Introducing Matlab environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis, statistics, algorithmization and geometric representation of results. Z 01SAM Seminar of Applied Mathematics 2 1. Defectoscopy and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. Dynamic pricing. 6. Statistical predictions in economics, sociology and psychology. 7. Application of random matrix theory. 02TEF1 Theoretical Physics 1 Z,ZK The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism as well as diferent approaches to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2). Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelier principle. Statistical entropy. Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical ensemble, Fermi gas, models of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. Introduction to Probability 1 1.Random trial with finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and geometry, Bertrand's paradox 4. Conditional probability, Bayes' theorem, medical diagnosis, Simpson's paradox 5. Random variable with discrete state space, its distribution and mean value 6. Problems involving the calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants Introduction to Probability 2 1. One-dimensional continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of probability and connection to measure theory. 4. Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6. Elementary methods for point estimations. 7. Generating pseudorandom numbers from the selected distribution. 02VOAF Waves, Optics and Atomic Physics Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction,

coherence. Geometrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves,the Schrodinger equation, stationary states and spectra of finite systems.

Code of the group: BSPAMSM3

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

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
01BPAM1	Bachelor Thesis 1 Pavel Strachota, Václav K s Pavel Strachota Pavel Strachota (Gar.)	Z	5	0+5		Р
01BPAM2	Bachelor Thesis 2 Pavel Strachota Pavel Strachota (Gar.)	Z	10	0+10		Р
01FANA1	Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	5	2P+2C		Р
01MAPR	Markov processes Jan Vybíral Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	4	2+2		Р
01MAS	Mathematical Statistics Václav K s Václav K s (Gar.)	ZK	3	2+0		Р
01MASC	Mathematical Statistics - Seminar Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	Z	2	0+2		Р
01CAS	Matematics for Particle Systems Milan Krbálek Milan Krbálek (Gar.)	Z,ZK	3	2P+1C		Р

01MIP	Measure and Probability Václav K s, Tomáš Hobza Tomáš Hobza Václav K s (Gar.)	Z,ZK	6	4+2	Р
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C	Р
01BASE	Bachelor Seminar Pavel Strachota Pavel Strachota (Gar.)	Z	1	0P+2S	Р
01STME	Statistical Methods with Applications Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.)	ZK	2	2P+0C	Р
01USU	Introduction to Machine Learning Ji í Franc, Jan Flusser Ji í Franc Jan Flusser (Gar.)	Z,ZK	4	2P+2C	Р

Characteristics of the courses of this group of Study Plan: Code=BSPAMSM3 Name=BS P_AMSMB 3rd year

01BPAM1	Bachelor Thesis 1	Z	5
Bachelor's Degree	project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under preparation.		I
01BPAM2	Bachelor Thesis 2	Z	10
Bachelor's Degree	project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under preparation.		'
01FANA1	Functional Analysis 1	Z,ZK	5
01MAPR	Markov processes	Z,ZK	4
01MAS	Mathematical Statistics	ZK	3
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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.

01MASC Mathematical Statistics - Seminar

7

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 Z.ZK Measure and Probability

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).

01RMAF **Equations of Mathematical Physics**

Z.ZK

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).

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 bachelor's degree projects at the faculty. The second part is designed as a practical training for the defense of the bachelor's 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

01STME Statistical Methods with Applications

ZK

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: 0

The role of the block: PV

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0

Note on the group.

Only one of these courses is obligatory.

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

00UPRA	Introduction to Law Martin ech Jana Ková ová	Z	1	0+2	PV
00UPSY	Introduction to Psychology Jakub Hají ek Jana Ková ová	Z	1	0+2	PV

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

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

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

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

04XAMZK	English for Intermediate Students Examination	ZK	4						
The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral									
(20-30 min). The studer	(20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses.								
04XAPZK	English for Advanced Students Examination	ZK	4						
The course content is the	ie examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability	to apply their kno	wledge obtained						
in the three AP courses	. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of a topic from	the student's fiel	d of study.						
04XCESZZK	Czech for Foreigners – Beginners - Examination	ZK	4						
The course content is the	e examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 0-	4XCESZ1,2,3 coι	irses and can						
only be taken after succ	sessful completion of all three courses. Detailed information is to be obtained from the teacher.								
04XCESMZK	Czech for Intermediate Students Examination	ZK	4						
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESM1,2,3 courses and can only									
be taken after successf	ul completion of the 3 courses. Detailed information is to be obtained from the teacher.								

04XCESPZK	Czech for Foreign Students - Advanced Examination	7K	4
	is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the	CESP1,2,3 courses	and can only
	essful completion of the 3 courses. Detailed information is to be obtained from the teacher.		•
04XFMZK	French for Intermediate Students Examination	ZK	4
The content is the	examination as given by the study programme. The whole French programme is ended with an examination covering the conte	nts of FM1-FM3. The	examination
consists of a writter	n and oral part and is organized according to Examination Instructions, a document available on the web.		
04XFPZK	French for Advanced Students Examination	ZK	4
The whole French	program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral	part and is organized	d according to
Examination Instru	ctions, a document available on the web. Assessment of the presentation is included into the examination grading.		
04XFZZK	French for Beginners Examination	ZK	3
The content is the	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The e	xamination is ruled b	y the document
Instruction for exan	ination. Its content covers the levels FZ1 - FZ5.		
04XNMZK	German for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examin	ation consisting of tw	vo parts - written
and oral, which cov	er the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 ass	essment. More detail	led information
is to be obtained from	om the teacher.		
04XNPZK	German for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examina	ation consisting of two	o parts - written
and oral, which cov	er the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungr.	aded assessment. M	ore detailed
information is to be	obtained from the teacher.		
04XRMZK	Russian for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr	nowledge and skills a	cquired in RM1
- RM3. Students ar	e eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instr	uctions by the teache	er.
04XRPZK	Russian for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr	nowledge and skills a	cquired in RP1
- RP3. Students are	eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instru	actions by the teache	r.
04XRZZK	Russian for Beginners Examination	ZK	3
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kr	nowledge and skills a	cquired in RZ1
- RZ5. Students are	eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instru	ctions by the teacher	r.
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the wr	itten part, students w	ill have obtained
non-graded assess	ment for course SM3.Oral examination follows the written part.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisi	te for admission to o	ral part is having
passed the written	test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the student.		
04XSZZK	Spanish for Beginners Examination	ZK	3
The course content	is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral	al examination only if	f he/she has
passed the written	examination test.		

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

The role of the block: V

Code of the group: 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
02DEF1	History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex Miroslav Myška Igor Jex (Gar.)	Z	2	2+0	L	V
01DEM	History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
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
18EKN	Econometrics Quang Van Tran, Radek H ebik Quang Van Tran Quang Van Tran (Gar.)	Z,ZK	4	2P+2C	L	V

01FKO	Functions of Complex Variable Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		V
02FYS1	Physical Seminar 1 Vojt ch Svoboda (Gar.)	Z	2	0+2	Z	V
B0B36JUL	Julia for optimization and learning Lukáš Adam, Václav Mácha Lukáš Adam Lukáš Adam (Gar.)	KZ	4	1P+3C	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
01LIP	Linear Programming Jan Volec Jan Volec (Gar.)	Z,ZK	3	2+1	Z	V
00MAM1	Essentials of High School Course 1 David Be	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
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 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.) Virius (Gar.)	KZ	4	2+2	L	V
01PR	R Programming Ji í Franc Ji í Franc (Gar.)	Z	2	0P+2C		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	Z	2	0+2	Z	V
01SOS2	Zden k ulík Zden k ulík Zden k ulík (Gar.) 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
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
14TED	Creating Electronic Documents Aleš Materna Aleš Materna (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
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, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V

Characteristics of the courses of this group of Study Plan: Code=BSPAMSMV Name=BS P_AMSM Optional courses

02DEF1

History of Physics 1

Physics and its place in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philosophers, Aristotle. Physics in 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
	ll mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E	-	
	n, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzman		•
	Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear e neept of Nature and Universe of today.	nergy, Elementar	y particles,
01DEM	History of Mathematics	Z	1
•	n of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field	_	
from the history of math		3	
01DIM1	Discrete Mathematics 1	Z	2
The seminar is devoted	to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2	Z	2
The seminar is devoted	to recurrence relations. It includes individual problem solving.	•	
01DIMA3	Discrete Mathematics 3	ZK	2
- :	oblems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem so	lving of one's own	choice from the
given literature.			
18EKN	Econometrics	Z,ZK	4
	on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data		=
verification.	s of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and i	nstruments for ec	onometric model
01FKO	Functions of Complex Variable	Z,ZK	3
	utlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable ar	· '	_
	d the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Ca		
· ·	norphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy		
theorem.			
02FYS1	Physical Seminar 1	Z	2
The seminar is devoted	to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic	s presented in the	e course of
Mechanics. The problem	is are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laboratory equ		
B0B36JUL	Julia for optimization and learning	KZ	4
	uage is increasingly known by the community for its suitability in the field of numerical calculations. The course consists of tw		-
	and part introduces mathematical optimization and its application in machine learning, statistics and optimal control of differe	=	
	cepts of Julia, the second part combines them into longer logical sections of code. We explain each application theoretically		-
•	by themselves and compare them with already existing packages. The course ends with a final project. Students can either competition with real data. This course is also part of the inter-university programme prg.ai Minor. It pools the best of AI educations with real data.		
	ler insight into the field of artificial intelligence. More information is available at https://prg.ai/minor.	ation in Frague to	provide etaderite
04AKS	English Conversation	Z	1
	the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun	_	· ·
			-
i ilieli vocabulary ioi vario	ous communication situations and will master their communication strategy. They will also practise their listening skills in orde	er to better follow	and participate
	ous communication situations and will master their communication strategy. They will also practise their listening skills in orde ent will be trained to express their ideas clearly and according to current English usage, and become a more confident spea		and participate
			and participate
on discussions. The student on the student of the s	ent will be trained to express their ideas clearly and according to current English usage, and become a more confident spea	ker.	3
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in discussions. The stud O1LIP We study special problet inequalities). O0MAM1 O0MAM2	ent will be trained to express their ideas clearly and according to current English usage, and become a more confident spear Linear Programming ms about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are government of High School Course 1 Essentials of High School Math Course 2	ker. Z,ZK iven by linear equ	3 ations and linear
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01PR	R Programming	Z	2
The aim of the cou	urse is to introduce R programming as a tool for research and data science projects including getting, cleaning, and exploring da	ata. Students will lea	rn how to write
code in R and hov	v to use R for effective data analysis. They will master the basics of the R language, work with factors, lists, data frames, tibbles.	and applying R-stud	lio packages.
Data manipulation	using tidyr and dplyr, visualisation with ggplot2, and present project with markdown and Shiny.		
18PPY1	Programming in Python 1	Z	2
This course introdu	uces students to advanced features of the Python language and common scientific packages. The course covers both object-oriented	ed as well as function	nal programmin
paradigms. The fol	llowing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy package	s), data processing a	ınd visualizatior
18PPY2	Programming in Python 2	Z	2
This course introd	luces students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar	r where each presen	ted topic is
accompanied by a	a short demo of a real-world application in the specific field.		
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 advanced concep	
language and mod	dules they are based on.		
01PSL	LaTeX - Publication Instrument	Z	2
-	oted to the basics and facilities of computer typography, particularly to the system LaTeX	- 1	_
01SSM1	Seminar of Contemporary Mathematics 1	Z	2
	rides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basis		
01SOS1	Software Seminar 1	Z	2
	, Assembly language programming for microprocessors Intel 80x86	4	2
01SOS2	Software Seminar 2	Z	2
	Software Settilital 2 s GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Uni		
-	. Portability to Microsoft Windows.	x like operating syst	erris, especially
	•	7	
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
14TED	Creating Electronic Documents	Z	2
Basic skills for cre	eating and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, prese	entations and entire	documents in a
office suite.			
17UING	Introduction to Engineering	KZ	3
This course provid	des introduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and	behavior, basics of r	manufacturing
and production, qu	uality assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will be included	l.	
02UKP1	Introduction to Curves and Surfaces	Z	2
	cture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concep		
-	are explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essentia		
calculated by stud	lents.		
12UNXAP	Introduction to UNIX	Z	2
_	erating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network inte	rface. Hardware and	
Principles of opera	ating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, work	ing with files. Text ed	ditors: vi, emac
	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standa		
X-windows. Comp	outer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of	a computer. Network	services:
nardware sharing,	, mail, scp, etc. Network applications		
	Introduction to Scientific Computing	Z	2
12UVP	d Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted w	vith some basic tools	fort scientific
_			
Practically oriente	mputing, data analysis, data visualisation and algorithm development.		
Practically oriented and technicval cor		Z	2
Practically oriented and technicval cor 12PYTH	Scientific Programming in Python		
and technicval cor 12PYTH The aim of this co		s placed on effective	solutions to rea
Practically oriente and technicval cor 12PYTH The aim of this cor problems. The cou	Scientific Programming in Python urse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is	s placed on effective udent theses. Studer	solutions to re its are also
Practically oriented and technicval coronal TapyTH The aim of this coloroblems. The country or the country of t	Scientific Programming in Python urse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is urse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or studies.	s placed on effective udent theses. Studer d or functional progr	solutions to reats are also amming. The
Practically oriented and technicval coronal TapyTH The aim of this coloroblems. The country or one of the greater part of the	Scientific Programming in Python urse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is urse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stug research. In the introductory part of the course, students learn the basic features of Python?from basic types to object orienter	s placed on effective udent theses. Studer d or functional progr	solutions to realts are also amming. The
Practically oriented and technicval coronal TapyTH The aim of this coloroblems. The counvolved in ongoing greater part of the	Scientific Programming in Python urse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is urse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or study research. In the introductory part of the course, students learn the basic features of Python?from basic types to object orienter course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, Scientific programming.	s placed on effective udent theses. Studer d or functional progr	solutions to realts are also amming. The

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

Credits in the group: 0 Note on the group:

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.) 04XAM1 Ζ 2 0+2 Ζ ٧ **English for Intermediate Students M1** English for Intermediate Students M2 V ra Šlechtová 04XAM2 Ζ 2 L 0+2

04XAM3	English for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1 V ra Šlechtová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2 V ra Šlechtová	Z	2	0+2	L	V
04XAP3	English for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3 Jana Ková ová (Gar.)	Z	2	2S	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	٧
04XCESM3	Czech for Foreigners - Intermediate 3 V ra Šlechtová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP1	Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESP2	Czech for Foreigners - Advanced 2 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESP3	Czech for Foreigners - Advanced 3 V ra Šlechtová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2 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	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová	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 V ra Šlechtová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1 V ra Šlechtová 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 V ra Šlechtová	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 V ra Šlechtová	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 V ra Šlechtová Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V

04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 V ra Šlechtová	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3 V ra Šlechtová	Z	2	0+2	Z	٧
04XSP1	Spanish for Advanced Students P1 V ra Šlechtová Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	٧
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 V ra Šlechtová	Z	2	0+2	Z	٧
04XSZ1	Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	٧
04XSZ2	Spanish for Beginners Students Z2 V ra Šlechtová 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 V ra Šlechtová	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5 V ra Šlechtová	Z	2	0+4	L	V

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

04XAM1 English for Intermediate Students M1 Ζ 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

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

The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field.

English for Advanced Students P1 04XAP1

The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application, polite request). If necessary, revision of selected grammar topics is included.

04XAP2 English for Advanced Students P2

The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various types of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and paragraph structure, linking, cohesion and coherence in texts.

04XAP3 English for Advanced Students P3

The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.

04XCESZ1 Czech for Foreigners - Beginners 1

The course is designed for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they will acquire basic language and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communication in the most common communicative situations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, the students will have reached A1 (CEFR) approximately

04XCESZ2 Czech for Foreigners - Beginners 2

The language and communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and conjugation system and practise communication of frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course, the students will have reached A2 (CEFR) approximately.

Czech for Foreigners - Beginners 3

The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, correct pronunciation, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in " eština expres 1".

04XCESM1	Czech for Foreigners - Intermediate 1	Z	2
	n correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the	e student's vocab	ulary for various
odxCESM2	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	_	
in understanding comm	on abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
	morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec oping the student's writing skills.	cially focused on s	tylistics and
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 E	_	
It is focused partly on re	evision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of	science. Students	are taught the
•	e of engineering and professional communication, both in spoken and written form. The topics include University Studies and	Student Life. Writ	ten practice
	n with teachers and faculty administrators.	7	
04XCESP2 This course extends the	Czech for Foreigners - Advanced 2 student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a	Z nd specialist texts	2
emphasis on individual		na specialist texts	placing greater
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
·	e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation	on, and, finally, pre	esentation of the
<u> </u>	g skills necessary for professional communication are trained.		
04XFM1	French for Intermediate Students M1	Z	2
	M The objective of this three-semester course is to improve and further develop communication in the French language in bo cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr		
	e problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, s	_	
	study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, pe	-	
to an advert, French cu	lture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work	based on these to	exts.
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 sciench sciences. Description of an object, device, shapes, dimensions, material.	ence and technolo	igy, French
04XFM3	French for Intermediate Students M3	Z	2
	in improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (_	
participle structures, co	mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl	lass. The paper is	linked to the
	specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	· ·	French articles
	Ige/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and o	T	
04XFP1	French for Advanced Students P1 In objective of this three-semester course is to improve and further develop communication in the French language in both wi	Z ritten and oral form	2 Students will
	e in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general		
	The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re		
	ait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactions		
•	dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top	ics of specializatio	n: mathematics,
04XFP2	istry. Reading of technical and popular science texts, further work with these texts and interpretation. French for Advanced Students P2	Z	2
	FIGHER FOR Advanced Students F2 ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	_	_
	communication are stressed (passive voice, nominalization, word formation).	g. o top.oo. r o.	atu. oo typ.ou. o.
04XFP3	French for Advanded Students P3	Z	2
The course is focused of	n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	engineering envir	onment. Special
	rter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cov	ers a technical /a	pplied science
	rk compiled from 3 French sources. Preparation of several set topics for oral examination.	7	
04XFZ1 French for beginners Th	French for Beginners Z1 le objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in s	Z socializing and in a	2 professional life
-	ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able		
level, actively using the	knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda	ová, French for be	ginners
	ate ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions	=	tion, asking and
	nple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat		
04XFZ2	French for Beginners Z2 with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of t	Z	2 da - Pravdová :
- -	Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem-		
ū	o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm	•	
How does the machine	work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3	French for Beginners Z3	Z	2
	FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - F		-
•	tuations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for ir Reading covers short adapted texts of general interest first, and later popular science texts.	normadon and 100	u as part ul
04XFZ4	French for Beginners Z4	Z	2
	n FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The c	l l	
	xtbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lea		
	ourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho	pping, weather, ur	niversity in our
country and in France,	how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.		

04XFZ5	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.		
•	h science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cl		
subjunctive clauses, ger		, ,,	, ,
04XNM2	German for Intermediate Students M2	Z	2
The course introduces o	ther more complex grammatical structures and their application in communication based on technical texts, such as the relation	n between techno	logy and society,
-	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and		
•	mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course systen or professional discourse (participles, relative clauses).	natically revises of	her grammatical
04XNM1	German for Intermediate Students M1	Z	2
	rse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and	1	
-	es (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Reput		
environmental issues to	gether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist	ts, and the fundan	nentals of IT
terminology. It develops	communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability.		
04XNM3	German for Intermediate Students M3	Z	2
	ther more complex grammatical structures and their application in communication based on technical texts, such as the relation		
•	ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system	٠,	
•	or professional discourse (participles, relative clauses).	nationly revises of	anci grammaticai
04XNP1	German for Advanced Students P1	Z	2
This course requires go	od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le	velled off at the be	eginning of the
course. The course is th	en focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for	detail). It revises	and develops
-	ructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	practical everyday	communication,
i.e., telephoning.	Occurred for Advanced Ottobarte DO	7	
04XNP2	German for Advanced Students P2 students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend	Z	2
•	duces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and	0 0	
· -	/, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	- p	,
04XNP3	German for Advanced Students P3	Z	2
The course consists of 3	main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a var	ariety of less com	mon situations
	accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the visual state of the complaints of the complaints of the complaints.		
·	ng, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used rocess information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The	-	
·		ne course also inc	iddes translation
bractice to and from Ge	man.		
practice to and from Ge 04XRM1		Z	2
04XRM1	rman. Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphab		=
04XRM1 The course is designed basic vocabulary for con	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaben munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask	pet (both printed a ing the way and g	nd handwritten), iving directions),
04XRM1 The course is designed basic vocabulary for conthey can use basic gram	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaben munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement	pet (both printed a ing the way and g	nd handwritten), iving directions),
04XRM1 The course is designed basic vocabulary for conthey can use basic gram contents and scope of the contents and scope	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaben munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking a structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement ne course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	bet (both printed a ing the way and g t level of the RZ2 o	nd handwritten), iving directions), course. The
04XRM1 The course is designed basic vocabulary for conthey can use basic gram contents and scope of the 04XRM2	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaben munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask mar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement ne course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. Russian for Intermediate Students M2	pet (both printed a ing the way and g	nd handwritten), iving directions),
04XRM1 The course is designed basic vocabulary for conthey can use basic gram contents and scope of the 04XRM2 The course is based on	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaten munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask in mar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement nee course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	pet (both printed a ing the way and g t level of the RZ2 o	nd handwritten), iving directions), course. The
04XRM1 The course is designed basic vocabulary for conthey can use basic gram contents and scope of the 04XRM2 The course is based on 04XRM3	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaben munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask mar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement ne course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable. Russian for Intermediate Students M3	Det (both printed a ing the way and g t level of the RZ2 of Z	nd handwritten), iving directions), course. The
04XRM1 The course is designed basic vocabulary for conthey can use basic gram contents and scope of the 04XRM2 The course is based on 04XRM3	Russian for Intermediate Students M1 for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphaten munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask in mar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement nee course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. Russian for Intermediate Students M2 the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.	Det (both printed a ing the way and g t level of the RZ2 of Z	nd handwritten), iving directions), course. The
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04XRZ4 Russian for Beginners Z4 The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a certain percentage of unfamiliar words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs, differences in verb patterns from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and practice oral and written communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g., Siberia), learn how to fill in forms, look up the information from the timetable, learn about Russian holidays and typical meals. Russian for Beginners Z5 The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summarizing information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 04XSM1 Spanish for Intermediate Students M1 The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. 04XSM2 Spanish for Intermediate Students M3 Ζ The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be able to work with specialized texts on the Internet. 04XSM3 Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. 04XSP1 Spanish for Advanced Students P1 Ζ 2 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR 04XSP2 Spanish for Advanced Students P2 Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. 04XSP3 Spanish for Advanced Students P3 Course SP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. 04XSZ1 Spanish for Beginners Z1 Ζ 2 Course SZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. Spanish for Beginners Students Z2 04XSZ2 Course SZ2 is based 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 them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic. Realia of Spanish-speaking countries are also included. Spanish for Beginners Z3 The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the Spanish-speaking countries, mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral communication on a given general topic, for which the student is trained by reading texts or listening to them. Spanish for Beginners Z4 The course is based on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish speaking countries, mainly of Spain. It pays attention to further grammar topics (perifrasis verbales, future imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive). to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them. Ζ 04XSZ5 Spanish for Beginners Z5 2

The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for specific purposes. In its final part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination.

List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology	Z	1
'	The course introduces the basics of micro- and macroeconomics.	•	'
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
00MAM2	Essentials of High School Math Course 2	Z	1
'	Review of basics of high school mathematics.	•	'
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focused or	n the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of put	olic speech
as well as to its nonver	rbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are ar	integral part of the	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	7	1

01ANB3	Calculus B 3	Z,ZK	8
	puences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional r´s theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation		
•	equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coe		- 1
	tial equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and is of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fouri		
	invergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total of		
	Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations		
01ANB4	Calculus B 4	Z,ZK	6
	o et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4] F kartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstr	_	
Integrální po et f	unkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu	eova v ta. Limita, s	pojitost a
048465	derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty. Bachelor Seminar	Z	4
01BASE In the first part of th	e seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	_	or's dearee
•	alty. The second part is designed as a practical training for the defense of the bachelor's degree project. The students give oral preservations of the bachelor's degree project.		٠ ١
the research res	ults achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the p student's performance.	ossibilities of impro	oving the
01BPAM1	Bachelor Thesis 1	Z	5
	achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under		
01BPAM2	Bachelor Thesis 2	Z	10
01CAS	achelor's Degree project on the selected topic under the supervision. Supervision and regular checking of the bachalor project under		3
	Matematics for Particle Systems se is to study general mathematical properties of one-dimensional stochastic particle systems whose elements are interacting. Especial	Z,ZK lly, systems fulfilling	_
	y are analyzed. For such systems, statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways, interval frequencies, and associate statistical distributions of headways and multi-headways are distributions of headways and multi-headways are distributions of headways and multi-headways are distributions of headways and headways are distributions of headways.	-	
01DEM	History of Mathematics	_ Z	1
The subject has the	form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gi from the history of mathematics.	ve their talks on vai	roius topics
01DIM1	Discrete Mathematics 1	Z	2
	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2 The seminar is devoted to recurrence relations. It includes individual problem solving.	Z	2
01DIMA3	Discrete Mathematics 3	ZK	2
Students get to kno	w problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solving	g of one's own choi	ce from the
04500104	given literature.	7.71/	
01FANA1 01FKO	Functional Analysis 1 Functions of Complex Variable	Z,ZK Z,ZK	5 3
	om outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are ex		-
	on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauch	-	
ineorem, roots or a	holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy esti theorem.	mates, Laurent sen	les, residue
01LAL	Linear Algebra 1	Z	2
1. Vector space. 2	Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of litheorem.	near mappings. 7.	Frobenius
01LAL2	Linear Algebra 2	Z,ZK	4
	se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and	•	
-	ionality. 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		
or dotorminante.	complements. 6. Geometry – exercises and examples. 7. Adjoint operators.	y. Galladianon of on	ogoriai
01LALZ	Linear Algebra 1, exam	ZK	2
01LIP	Linear Programming	Z,ZK	3
vve study speciai pi	roblems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given inequalities).	by linear equations	s and linear
01MAN	Calculus 1	Z	4
04144110	Basic calculus (real analysis, functions of one real variable, differential calculus).	7.71	
01MAN2 1. Continuation of	Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute ar	Z,ZK nd conditional conve	8 eraence 3.
	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integr		- 1
0414417	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	714	
01MANZ 01MAPR	Calculus 1, exam Markov processes	ZK Z,ZK	4
01MAS	Mathematical Statistics	Z,ZK	3
	roted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statistics.		_
estimators with	minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for h	ypothesis testing u	sing the
01MASC	Neyman-Pearson lemma and likelihood ratio, confidence intervals and non-parametric density estimation. 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	l I	
	inding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood,		regions for
hy	pothesis testing using the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric densi	y estimation.	

01MIP	Measure and Probability	Z,ZK	6
•	ted to the introduction to Theory of probability on measure-theoretic level for discrete models, continuous distributions and general dis		
We deal with the	examples of distributions including multi-dimensional Gaussian distribution and their properties. Further the (non)+integral characteri Var,), convergence modes (Lp, P, a.s., D) and variants of limit theorems are derived (LLN, CLT).	stics of random vai	riables (E,
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.	· ·	
	lary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic.	•	3 00g
01PGR1	Computer Graphics 1	Z,ZK	2
The first part of the	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of	f the art technolog	ies. Further,
' - '	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	nowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of com the process of authoring scientific documents and presentations.	puter graphics app	roaches in
01PGR2	Computer Graphics 2	Z,ZK	2
	f 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	=	
rendering. Focus is	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in	a variety of subject	cts available
at FNSPE. The algo	prithm 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
0400	using Blender, an open-source 3D modeling and rendering software instrument.	-	
01PR	R Programming		2
	irse is to introduce R programming as a tool for research and data science projects including getting, cleaning, and exploring data. Si w to use R for effective data analysis. They will master the basics of the R language, work with factors, lists, data frames, tibbles. and		
code in it and not	Data manipulation using tidyr and dplyr, visualisation with ggplot2, and present project with markdown and Shiny.	applying it studio	packages.
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 con	nparisons with res	pect to their
	properties and applicability.		
01RMAF	Equations of Mathematical Physics	Z,ZK	7
The subject of this	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tr partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).	ansformations, and	d solution of
01SAM	Seminar of Applied Mathematics	7	2
	and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. D	- 1	
о	predictions in economics, sociology and psychology. 7. Application of random matrix theory.	,g. c	
01SOS1	Software Seminar 1	Z	2
'	Java, Java Beans, Assembly language programming for microprocessors Intel 80x86	'	
01SOS2	Software Seminar 2	Z	2
Graphical libraries	GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like	operating systems	, especially
0400044	for Linux systems. Portability to Microsoft Windows.	7	
01SSM1	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	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		
	ation. The aim is to illustrate the use of statistical procedures on examples. Solutions of concrete examples by use of statistical softw		
01UP1	Introduction to Probability 1	Z,ZK	3
	ith finite set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and general set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and general set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and general set of possible results, classical probability, independent random events 2. Probability and combinatorics 3. Probability and general set of possible results, classical probability and general set of possible results.	-	
4.Conditional prob	pability, Bayes' theorem, medical diagnosis, Simpson's paradox 5.Random variable with discrete state space, its distribution and mea		s involving
041100	the calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variant		
01UP2	Introduction to Probability 2 I continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of	Z,ZK	3
	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
The aim of this cou	rse is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the	pasic methods of le	- 1
	r analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practic		ercises use
	n and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from pr	actical problems.	
02DEF1	History of Physics 1 ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	Eonhere Aristotle	2 Physics in
-	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F	-	-
	as experimental science. Newton and his work.	, , , , , , , , , , , , , , , , , , , ,	, ,, =,00
02DEF2	History of Physics 2	Z	2
Development o	f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		netism -
	ranism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		
and relativistic p	hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er	ergy, ⊨lementary p	particles,
02ELMA	standard model. The concept of Nature and Universe of today.	Z,ZK	6
	Electricity and Magnetism pulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond	, ,	
_	Electrodynamic forces,magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves,N	' -	Jianvity
02FYS1	Physical Seminar 1	Z	2
	levoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physics	ı	
Mecha	nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laborates.	atory equipments.	

OZHECH Medicancies Medicancies Z 4 4 4 4 4 4 4 4 4				
OZMECHZ Mechanics of spatial not free particles, hot-body problem, collabors. Mechanics original body, rotation. Pictures—a mechanics, institute, hydrophyramics. Some spatial institute in transfer and experimental original problems. The content of the update in the examination according to the pain of studies. 2 Z.Z.K. 4 The content and institution is snaps/scall institution. The content of the update is the examination according to the pain of studies. 2 Z.K. 4 The content and institution is snaps/scall institution. The snaps/scall institution in transfer and institution in the institution in transfer and institution in institution in institution in institution in institution in instituti				
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Mechanics - Examination The contect of the abbets in the seaments according the plan of studies. 102TEF1 Theoretical Physics 1 Theoretical Physics 2 Theo	in central force		y, rotation. Funda	amentals of
The content of the subjects the examination according to the plant of studies. The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Humilitanian formation as well as different approaches of the course of department (Newton's, Lagrange, Humilitanian of trainformation-basic) expension. The efficiency of these methods is flustrated on designation from the course of course of the c	02MECH7	· · · · · · · · · · · · · · · · · · ·	7K	7
Theoremical Physics 1 The course is an introduction to analytical mechanics. The students acquise horoxidege of the back accorage to the Lagrange and Hamiltonian tormalism as well as directive approaches to describe on dynamical (Neuron.). Lagrange, Hamiltonian and Hamilton-Jacobi opautions). The difficiency of these methods is illustrated on elementary seamples allow the become proposed to the property of the course of classical theoremical physics (DZTEP). (DTTEP). **OZTER*** **Head and Mideological Physics (DZTEP). (DTTEP). **DETAIL AND ADDRESS AND A	UZIVIECTIZ		ZΚ	2
The courses are introduction to analytical mechanics. The students assaults introduction the back concepts of the Lagrange and Hamiltonian branchina is well as offerent approach to description of physics. Order part of the received of a system of contrained mass paties, and of a rigit body, Advanced parts of the course outward formation and the patients. The subject is provided to the course of contrained and in significant of the course of contrained and in significant of the course of contrained and insignificant of the course of contrained to the course of course of contrained to the course of contrained to course of contrained to course of contrained to course of contrained to course of course of course of course of course of course of course	02TEF1		7 7K	1
to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton's acuts equations). The efficiency of these methods all lutrated on elementary examples like in the tox-cody proteins. The resultance of a system of constrained mass points, and of a rigit body. Advanced parts of the course cover differential and integral principles of methods. The state of the course of the			•	1
poblem, the notion of a system of constrained mass portes, and of a rigid body. Advanced parts of the course cover differential and integral primoples of mechanics. The subject is the first part of the course of colosidar theoretical physics. OZTER Heat and Molecular Physics Z,ZK 4 Thermal expansion of materials, heat transfer, stationary and constitution, the state of the course of colosidars and the membranics and state of the course of the state of the state of the course of the state of the				
Commonwealth Comm	•		•	
Thermal expansacy of materials, heat transfer a garageter materials. Movemed industros and transfer and parentarios, rist and and thermologymanic phronicy, incoherentary solvents dischorts and analysis of the control		the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		
contraction on thermical systems, delication and mangenic materials, Maxwell relations and thermodynamics potentials, kinetic theory, Maxwells valority distribution, pagingarithos hazardary and production of thermodynamics and statistical physics. Thermodynamics and Statistical Physics is an advantaged of the decidence of the production of the money hazardary and statistical physics. Thermodynamic potential, the Joule Thompson Reductions of equilibrium, the Result of Australian Maxwell (seasocial and quadactistical port of view (dissical and musculas acid regions with the frame of a canonical and grants of the locative are the throughout the production of the delicative are throughout the frame of a canonical and grants. The basic concepts for the curve are throughout the production of the delicative are introduced for the delicative are the example canonical and electromagnetism through the curves and the curves and through the production of the delicative are the example calculated by suddents. OZVOAF Waxwelphenomena in mechanics and electromagnetism modes, standing and travelling waves, wave packets indigentally explored the curve are the example calculated by suddents. OAAKS Waxwelphenomena in mechanics and electromagnetism modes, standing and travelling waves, wave packets independent of production and through the production and packets of finite systems. OAAKS English Chorwersation or communication and travelling and travelling waves, and become a more conflicted systems of the curves and through the production and packets of finite systems. OAAKS English for Intermediate Students of the production and travelling and travelling waves and through the production and through the	02TER	Heat and Molecular Physics	Z,ZK	4
OZYDAF Waves, Optics and Statistical privacies. The control of the optics of the modern private patients in the Journal of Statistical privacy description from a statistical port of view (desistical and quasi-absistical regime within the famore of a canonical and grand-canonical ensemble, Fermi gas, mode of cryosytals and the Babato boxy adiation, The Beturchane equation is used to discussed and the Babato boxy adiation, The Beturchane equation is used to discussed the statistical port of the patients of the patients of the state is an introduction to the differential genometry of animple amenatics. curves and the Wordinger to the curves are introduced "renests formulae are explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of the fecture are the example calculated by students." 2VOAF Waves, Optics and Atomic Physics Waves pharomena in machanics and electromagnatism modes, standing and travelling waves, wave specialist indepentive model. Wave optics: polarization, interference, effection, coherence. Geometrical optics, Introduction toquaritum physics: black body radiation, quaritum of energy, photoeffect, the Compton effect, the de Brogille waves, the Schrödinger equation, statistically asked and special of finite systems. OAAKS English Conversation English Conversation Fine course will develop the student's communication stallation and will anaeque their ownerunication statistics and sequential throughout their previous studies. It aims to improve all aspects of onticommunication. The student will between their communication strategy. They will also practise their isteering skills in order to better follow and participate in discussions. The student will be trained to express their ideas designed or students who have successfully completed their Jacobides and according to counter English usage, and become an ormediant sealable. OAXAMI English Conference of the student to have expressed to the student of the course is a seal	Thermal expansion	n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic	c principle, ideal	and real gas
**Sundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-La Chataliler phrinciple, Statistical antings as a statistical point of view (statistical point of view (statistical point of view (statistical point) of view (statist				ition theorem
Basics of many body description/from a statistical point of view (destescied and quasicassical regime within the frame of a canonical and gard-canonical resemble, Fermi gas, model of cryostals and the Boda body cradiation, The Budard many control of the Common of the			•	1
of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. Z 2 The goal of the fective is an introduction to the differential geometry of simple manifolds. Journels and Working and the fective is an introduction to the differential geometry of simple manifolds. Journels and two-dimensional surfaces. The basic concepts for the curves are introduced in contract that the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of the lecture are the example calculated by students. Q2VQAF Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave puckets indispersive media. Wave optics polarization, interference, diffraction, contraction of energy, photoelectry, the Compton effect, the de Broglie waves the Schrödinger equation, quartum of energy, photoelectry, the Compton effect, the de Broglie waves the Schrödinger equation, stationary stations and spectra of finite systems. Q4AKS English Conversation The course will develop the student's communication skills acquired throughout their previous studies, it aims to improve all aspects of real communication. The student will be trained to express their ideas deality and according to current English siage, and become a more confident systems. Q4XAM1 English for Intermediate Students M1 Z 2 Q5 The course is designed for students will be trained to express their ideas deality and according to current English siage, and become a more confident speaker. Q4XAM2 English for Intermediate Students M1 Z 2 Q5 The course is designed for students who have successfully completed the full secondary school English Indiquage current is the A2 level of the Common European Framework of Students and will be successfully completed the full secondary school English Indiquage current is the A2 level of the Common European Framework and the students of the successfully completed the full secondary school English Indiquag				
OZUMP1 Introduction to Curres and Surfaces The goal of the lecture is an introduction to the differential generatory of simple manifolds ourse and modernmental surfaces. The basic concepts for the curve are introduced reaches formulae are explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of the lecture are the example calculated by surfaces. 2VOAF Weeks, Optics and Atomic Physics 2VA 6 Weeks phanements in mechanics and electromagnetism. Modes, standing and relevating the exemption and part of the curve are the example calculated by surfaces. A common production of the curve are the example calculated by surfaces. 2VA 6 CANAS English Corporated on the surface theory we introduction toquantum physics: black body radiation, quantum of energy, photoeffiers, the Compton effect, the de Broglie wewes, the Schrodinger equation, stationary at states and spectra of finite systems. 2 In The course will develop the student's communication statistics and will make their communication strategy. They will also practice their fiseing statistics or communication statistics and will make their communication strategy. They will also practice their fiseing statists in order to better follow and participate into strategy and produced their strategy and the corner is more crifficiant specially and common for current English they communication strategy. They will show proceed all aspects of call communication strategy. They will show proceed the strategy and the corner is more crifficiant specially and common for current English and process and show the strategy and the corner is more crifficiant specially and common for current English and process and show the strategy and the corner is developed to students who have successfully completed the full secondary school English language course the fished to students with a common formation of the strategy and the str	Basics of many bo		ensemble, Ferm	i gas, models
The goal of the lecture is an introduction to the differential geometry of simple mainfolds - curves and two-dimensional surfaces. The basic concepts for the curves are introduced refrest and second indiamental forms and mean and Gaussian curvature. Essential part of the lecture are the example received in the surface theory we introduce first and second indiamental forms and mean and Gaussian curvature. Essential part of the lecture are the example calculation by students. 2VOAF Weep Approximation of the lecture are the example calculation of the part of the lecture and the example calculation of the part of the lecture and the calculation of the part of entire part of the lecture and the calculation of the part of entire part of the lecture and the calculation of the part of entire part of the lecture and the calculation of the part of entire part of the lecture and the calculation of the lecture of entire part of the lecture and the calculation of the lecture of entire part of the lecture and the lecture of the lecture and the lecture of the lecture and the lecture of the lectur	00111/04		_	1 0
**Prenets formulae are explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of the lecture are the example 2VOAF Waves, Optics and Alornic Physics 02VOAF Waves phenomena in mechanics and electromagnetism. modes, standing and revisible of the control of the control of the control optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrödinger equation, stationary states and spectra of finite systems. 04AKS English Conversation Z 1 **The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of rail communication. The student will develop their vocabulary for various communication skills acquired throughout their previous studies. It aims to improve all aspects of rail communication. The student will develop their vocabulary for various communication skills acquired throughout their previous studies. It aims to improve all aspects of rail communication. The student will develop their vocabulary for various communication skills acquired throughout their previous studies. It aims to improve all aspects of rail communication. The student will develop their students will be railed to express their ideas design and according to current English to gene confident speaker. 404XAM1 English for Intermediate Students M1 Z 2 104XAM2 English for Intermediate Students M2 Z 2 104XAM2 English for Intermediate Students Students and students of the students of their covera topics railed to the students is fine and modes as well as expliced of subtraction and writer communication situations. Thus it covera topics railed to the students it such under the students in a coverage topic according to professional students in the students is such as the students in the students in the students is such as the students in the students in the students in the students is expecte			_	1
OZVOAF Wave phenomena in mechanics and electromagnetism modes, standing and travelling waves, wive packets indispersive media. Wave optics; polarization, interference, diffraction, coherence, Geometrical optics. Introduction toquantum physics: black body relations, quantum of energy, photocenter, the Compton effect, the de Broglis waves, the Schrodinger equation, stationary states and sportar of finite systems. O4AKS English Conversation English Conversation English Conversation AVAMI English for Intermediate Students will be trained to express their electromagnetism strategy. They will also practice their listering skills in order to better follow and participate their vocabulary for various communication strategy. They will also practice their listering skills in order to better follow and participate their vocabulary to various communication strategy. They will also practice their listering skills in order to better follow and participate their vocabulary for various communication strategy. They will also practice their listering skills in order to better follow and participate their various communication strategy. They will also practice their listering skills in order to better follow and participate their various communication strategy. The course is designed for students who have successfully downpreted the tall is escendary shored legisla bargage course at least at the A2 level of the Common European Framework of Reference for Languages (CEFR). It provides an introduction into English the Specific and Academic Purposes (ESP, EAP), i.e., into undermetals of vocabulary and skyle typical compressional and written communication situations. This is cover to gote resident to the students as well as to stock of subject to the subject of ESP and EAP (e.g., definition), existence and designation of phenomena, object descriptions). Part of the course is also guided writing, if necessary, grammar residents is included. O4XAM2 English for Intermediate Students Was subtracted to the students of the subject				
Waves phanomens in mechanics and electromagnetism modes, standing and revelling waves, when packets indispersive media. Wave opticis palarization, interferone, differance, coherence. Geometrical optics, introduction toquantum physics itseks body radiation, quantum of energy, photoetfect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems. O4AKS English Corversation Z 1 The course will develop the student's communication skills acquired throughout their provious studies. It aims to improve all aspects of oral communication. The student will develop their vicability for various communication situations and will master their communication states. They will also practise their literating skills in order to better follow and participate in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more conditional speaker. O4XAM1 English for Interrmediate Students will be trained to express their ideas clearly and according to current English usage, and become a more conditional speaker. O4XAM2 English was expressed to the student of the students will be secondary school English language course at less at the A2 level of the Common European Faramewor Reference for Languages (CEFR). It provides an introduction into English for Interrmediate Students will be subjected to a surface and provides of grammar issues used in EAP. O4XAM2 English for Interrmediate Students Mi2 English for Interrmediate Students Mi2 EAP. O4XAM3 English for Interrmediate Students Mi2 EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided writing, if necessary, grammar understanding of professional texts. Great emphasis is placed on distinguishing different levels of formula and informal orial and written communication and their appropriate Casch squivalents. The course also includes studying abstracts and rules for writing them as well as so	i renets tormulae a	·	ine iecture are	пте ехаптріез
Wave phenomena in mechanics and electromagnetism; modes, standing and travelling waves, wave packets indepensive model. Wave optics: polarization, interference, diffraction, oberherence. Geometrical optics. Introduction toquantum physics: black body redistion, causaring on every polarization of energy, photoletics, the Compton effect, the de Broglie waves, the Schrodinger opusation. Stationary states and spectra of finite systems. O4AKS English Conversation Z 1 The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication. The student will develop their vocabulary for various communications and will masset their communication stratesy. They will also practise their literating skills in order to better follow and participate in discussions. The student will be trained to express their identicipation strategy. They will also practise that literating skills in order to better follow and participate in the state of the students will be trained to express their identicipates. The students will be trained to express their identicipation in the students of the common of the state of the students will be trained to express their identicipation of the state of the students of the students who have successfully completed the full secondary shorted is file and necess as sevel as topics of subtendinal interest. Attention is also patient of extending the knowledge of grammar issues used in EAP. Q4XAM2 English for Intermediate Students M2 Z 2 The AMC course expects the student to have completed the AM1 course. It develops their skills for work with subtenhical toxis, focusing also more on specific grammar, functions, and leavage and their participations are properlised. The course is also guided writing. If necessary, grammar revision is included. Q4XAM2 English for Intermediate Students M2 Z 2 The course develops the skills that enable students to cope with features typical of professional skys. Increasing	02\/0^F	·	7 7K	6
coherence. Geometrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves.the Schrödinger equation, satistionary states and spectra of finite systems. QAAKS		· ·	•	_
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The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication. The student will develop the invocabilarly for various communication and will master their communication strategy. They will also practise their log skills in order to better follow and participate in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more confident speaker. O4XAM1			g	
The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communication. The student will develop the invocabilarly for various communication and will master their communication strategy. They will also practise their log skills in order to better follow and participate in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more confident speaker. O4XAM1	04AKS	English Conversation	Z	1
In discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more confident speaker. OAXAM1			tion. The studen	t will develop
O4XAM1 English for Intermediate Students M1 Z 2 The course is designed for students who have successfully completed the full secondary school English inaquage course at least at the A2 level of the Common European Frameword 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 or 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, 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 evision is included. 04XAM3 English for Intermediate Students M3 Z 2 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is pleaded on distinguishing different levels of formal and intermed and and written communication and their appropriate Zeche squivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the students. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the students. The course is designed	their vocabulary f	or various communication situations and will master their communication strategy. They will also practise their listening skills in order t	better follow ar	nd participate
The course is designed for students who have successfully completed the full secondary school English Inanguage course at least at the A2 level of the Common European Framework of Reference for Languages (CERP), it provides an introduction into English for Specific and Academic Proposes (ESP, EA, in) for fundamentals of vocabulary and style typical or Reference for Languages (CERP), it provides an introduction into English for Specific and Academic Proposes (ESP, EA,Pe), i.e., into third amentals of vocabulary, functions, and closical times 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, gramma revision is included. 1	in o	discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more cor	fident speaker.	
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 or professional oral and written communication situations. Thus it covers topics related to the student site and needs as well as topics of subtechnical interest. Attention is also paid to extending the knowledge of grammar issues used in EAP. 04XAM2	04XAM1	English for Intermediate Students M1	Z	2
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. O4XAM2 English for Intermediate Students M2 The ANZ 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, gramma revision is included. O4XAM3 English for Intermediate Students M3 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Ezech understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Ezech subuvialents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the students. The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses. O4XAP1 English for Advanced Students P1 Z 2 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages	The course is desi	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	ommon Europea	an Framework
extending the knowledge of garmmar issues used in EAP. CAYAM2	of Reference for L	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of	vocabulary and s	style typical of
O4XAM2 English for Intermediate Students M2	professional oral		erest. Attention is	s also paid to
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, gramma revision is included. 04XAM3				
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, gramma revision is included. O4XAM3 English for Intermediate Students M3 Z 2 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. O4XAMZK English for Intermediate Students Examination ZK 4 The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses. O4XAP1 English for Advanced Students P1 Z 2 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR), it provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communications students (in the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application polite request). If necessary, revision of selected grammar topics is included. O4XAP2 English for Advanced Students P2 Z 2 The AP2 course is based on AP1, thus extending the student's skills f	-	ı	_	1
Prevision is included. English for Intermediate Students M3 English for Professional students M3 The course develops the skills that enable students to cope with fleatures typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech squivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. English for Intermediate Students Examination Explication or Intermediate Students Explication or Intermediate Students P1 Explication or Explication or Intermediate Students P1 Explication for Advanced Students P1 Explication for Advanced Students P1 Explication for Advanced Students P2 Explication or Explication or Intermediate Students P2		·		
Page 1 Processes and a contract of the course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. 1 Page 2 Page 2 Page 3 Pag	and lexical items ty		writing. If necess	sary, grammai
The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical vocabulary and independer understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech squivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field. O4XAMZK	0.4\/.0.140		7	
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The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses. O4XAP1	04XAMZK		<i>7</i> K	4
O4XAP1 English for Advanced Students P1 Z 2 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application polite request). If necessary, revision of selected grammar topics is included. O4XAP2 English for Advanced Students P2 Z 2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According 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 type of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and coherence in texts. O4XAP3 English for Advanced Students P3 English for Advanced Students Examination O4XAPZK English and functions (e.g., expressing an opinion, agreement,				1
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of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application polite request). If necessary, revision of selected grammar topics is included. O4XAP2 English for Advanced Students P2 Z 2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various type of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and paragraph structure, linking, cohesion and coherence in texts. O4XAP3 English for Advanced Students P3 Z 2 The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal langua			ommon Europea	1
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English for Advanced Students P2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical functions (e.g., various type of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and paragraph structure, linking, cohesion and coherence in texts. O4XAP3 English for Advanced Students P3 Z 2 The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication. O4XAPZK English for Advanced Students Examination ZK 4 English for Advanced Students Examination ZK 4 English for Advanced Students Examination AVAPZK Cach for Foreigners - Intermediate 1	covers professiona	al oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (w	riting a CV, letter	of application
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	1110 000136 13 1000		.aacin ə vocabüli	ary ior various
		social situations.		

04XCESM2	Czech for Foreigners - Intermediate 2	Z	2
The course develo	ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and readin	ig skills and trains	the student
	in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.		
04XCESM3	Czech for Foreigners - Intermediate 3	Z	2
	revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia	_	
The last course i		ally locused oil styl	isiics ariu
	lexicology and on developing the student's writing skills.		
04XCESMZK	Czech for Intermediate Students Examination	ZK	4
The course conte	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	M1,2,3 courses ar	nd can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XCESP1	Czech for Foreign Students - Advanced 1	Z	2
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europ	_	
	ron revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of sciences.		
			•
basics of function	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and S	student Life. Writter	n practice
	includes communication with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
This course extend	is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and	specialist texts pla	cing greater
	emphasis on individual work.		0.0
04XCESP3		Z	2
	Czech for Foreigners - Advanced 3	_	
The course develo	ps the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a	and, finally, present	tation of the
	student's project. Writing skills necessary for professional communication are trained.		
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
The course conte	nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES	P1,2,3 courses an	d can only
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		•
04700024		Z	2
04XCESZ1	Czech for Foreigners - Beginners 1	_	
	gned for students on the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g		
•	anguage and speaking skills. The course focuses on pronounciation exercises, simple social phrases, and oral and written communic		
communicative situ	iations. The course covers roughly lessons 1-5 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of the course,	the students will ha	ave reached
	A1 (CEFR) approximately.		
04XCESZ2	Czech for Foreigners - Beginners 2	7	2
	communication competences acquired in CESZ1 are further developed. Students extend their knowledge of Czech declension and co	niugation evetem :	_
	· · · · · · · · · · · · · · · · · · ·		
communication o	f frequent topics. The course covers roughly lessons 6-10 in "Chcete mluvit esky" by H. Remediosová and E. echová. At the end of	the course, the stu	adents will
	have reached A2 (CEFR) approximately.		
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2
The course further	or develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	building up basic v	ocabulary,
correct pronuncia	tion, deepening grammar, including grammar practice, and introducing Czech culture. Students are asked to produce simple texts and	they practise freq	uent types
'	ney also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons		
		ZK	
04XCESZZK			.4
The course conte	ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X	CESZ1,2,3 course	s and can
	only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.		
04XFM1	French for Intermediate Students M1	Z	2
French - intermedia	ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v	vritten and oral for	m. Students
will be able to co	ommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra	nsmit general and	technical
	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically secondary school is the course builds on and further develops linguistic competence acquired at secondary school.	_	
	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor		
	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo	rk based on these	
04XFM2	French for Intermediate Students M2	, Z	2
Course FM2 builds	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text	s, features typical f	for technical
and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	nce and technolog	y, French
	scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	reflect for intermediate students wis 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	· · · · · · · · · · · · · · · · · · ·	
and on	e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	on and coherence.	
04XFMZK	French for Intermediate Students Examination	ZK	4
The content is the	e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o	f FM1-FM3. The ex	amination
	consists of a written and oral part and is organized according to Examination Instructions, a document available on the web		
047504			
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		
	nicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general		
to solve problems.	FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repea	ated and expanded	l: subjonctif,
passé composé-in	parfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le	tters, CV, personal	statement,
request, answer to	an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of	of specialization: m	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
	I I		
vviui ine iink to P1	contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on gi	ven topics. Feature	es typical of
	technical and scientific communication are stressed (passive voice, nominalization, word formation).		
04XFP3	French for Advanded Students P3	Z	2
The course is focus	sed on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in en	jineering environm	ent. Special
skill - translation of	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.		
	, and a second of the second o		

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	_	cording to
	Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gr		
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 soc les French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able t		
	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		- 1
giving the	directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu	inciation and gramr	mar.
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		
0	nners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement of the control		. 0,,
thanking, travelling	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communi	ication. Specific top	ics covered:
04XFZ3	How does the machine work? A few expressions concerning the study. Name of University and Faculty. French for Beginners Z3	Z	2
	upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra		
	and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for inf		-
.,,	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		
04XFZ4	French for Beginners Z4	Z	2
The course builds	s up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The col	ntents is roughly co	vered with
lessons 19 - 23 of t	he textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lectur	re notes French for I	Engineering
Students of FJFI.	The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopp	0,	rsity in our
0.4)/575	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, intern	1	
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 p 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 cl		
,	subjunctive clauses, gerund, passive.	,	,
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 examin	nation is ruled by the	
	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		
	n processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	=	
environmentai is	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		ntais of 11
04XNM2			2
04XNM2 The course introdu	German for Intermediate Students M2 ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation by	Z	2 and society,
The course introdu	German for Intermediate Students M2	Z etween technology	and society,
The course introdu	German for Intermediate Students M2 ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be	Z etween technology car technology etc.	and society, Students
The course introdu the world at the practise reading for	German for Intermediate Students M2 ces other more complex grammatical structures and their application in communication based on technical texts, such as the relation be beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic phenomena important for professional discourse (participles, relative clauses).	Z etween technology car technology etc.	and society, Students grammatical
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they can use bas	sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement i contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab		urse. The
04XRM2	Russian for Intermediate Students M2	Z	2
04XRM3	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	_	2
	Russian for Intermediate Students M3 ps the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe	Zever for half of the	I
	in the timetable.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
04XRMZK	Russian for Intermediate Students Examination	ZK	4
The course conten	it is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	lge and skills acqu	ired in RM1
	lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst	ructions by the tea	cher.
04XRP1	Russian for Advanced Students P1	Z	2
The entrance req	uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prac structures, understanding the fundamentals of technical language and training writing skills.	ticing more difficul	t grammar
04XRP2	Russian for Advanced Students P2	Z	2
	Russian for Advanced Students F2 sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve	l	1
THE COURSE IS DUC	structures). Stress is put on independent oral and written communication.	no aspects, specifi	o symaolio
04XRP3	Russian for Advanced Students P3	Z	2
	ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing	າ g, translation). The	RP1 - RP3
	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 w	· ·	-
develop their subte	chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc technical topics.	urately and with co	infidence on
04XRPZK	Russian for Advanced Students Examination	ZK	4
	t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled	l	
	lents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr	-	
04XRZ1	Russian for Beginners Z1	Z	2
The course represe	ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian	ı. Thus it begins wit	h mastering
the Russian alphal	pet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be	able to read
	a short text with marked stress, understand its contents and summarize it.	_	1
04XRZ2	Russian for Beginners Z2	Z	2
	ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also		
able to communica	master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in	· ·	abulal y allu
04XRZ3	Russian for Beginners Z3	7	2
-	reaction in Section 1997 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training	_	_
	a on the and morado farmor overy day topico, develope and rotationing of enert compact texts on new capteer misar topics for training	various forms of re	cauling skills
	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be		-
and listening) an			-
and listening) an 04XRZ4	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. Russian for Beginners Z4	able to respond so	o as to be
and listening) an 04XRZ4 The course is base	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a contraction.	able to respond so	o as to be 2 of unfamiliar
and listening) an 04XRZ4 The course is base words, oral comm	d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a councilation in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs)	Z ertain percentage s, differences in ver	o as to be 2 of unfamiliar rb patterns
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04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu	sed on written com	nmunication
	based on what students will need in their career.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course conten	t is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite for a	dmission to oral pa	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
	first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundament	al grammar structu	ires 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 develor	p it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course SZ2 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 a	as to enable
them to understand	d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other:	s such as the Czec	ch Republic.
	Realia of Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
The course is base	d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the	e Spanish-speaking	g countries,
mainly of Spain.	It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative;	. It includes writter	n and oral
	communication on a given general topic, for which the student is trained by reading texts or listening to them.		
04XSZ4	Spanish for Beginners Z4	Z	2
The course is bas	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	speaking countries	s, mainly of
Spain. It pays atte	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	imperative, and su	ubjunctive),
	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenii	ng to them.	
04XSZ5	Spanish for Beginners Z5	Z	2
The course books	are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo	r specific purposes	s. In its final
	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina	tion.	
04XSZZK	Spanish for Beginners Examination	ZK	3
The course conte	ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	amination only if he	e/she has
	passed the written examination test.		
12NME1	Numerical Methods 1	Z,ZK	4
There are explaine	d the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me	thods for solution o	of tasks very
important for phys	icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat	ional environment	MATLAB is
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12PYTH	Scientific Programming in Python	Z	2
The aim of this cou	rse is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place	d on effective solu	tions to real
problems. The co	ourse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or studer	nt theses. Students	are also
•	ng research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or		٠ ا
greater part of th	e course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy	and the Matplotlib	graphics
	library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.		
12UNXAP	Introduction to UNIX	Z	2
	perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface.		
	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi		
	eter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard to	•	
X-windows. Cor	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a computer networks.	omputer. Network s	services:
40111/15	hardware sharing, mail, scp, etc. Network applications		
12UVP	Introduction to Scientific Computing	Z	2
Practically oriente	d Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s	ome basic tools for	rt scientific
4.4755	and technicval computing, data analysis, data visualisation and algorithm development.		
14TED	Creating Electronic Documents	Z	2
Basic skills for crea	ating and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, presentation	ns and entire docu	ments in an
450114	office suite.		
15CH1	General Chemistry 1	Z	3
The most importan	t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	se are illustrated b	y examples
450110	solved in exercises.	7 714	
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 v	•	
the validity of these	e principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises.	illustrated by exam	ipies solved
47LUNIC		V7	2
17UING	Introduction to Engineering des introduction to engineering skills. Students should gain general engineering skills at basic level (e.g. material properties and beha	KZ	3
•	nd production, quality assurance, environmental impacts,). In addition, the introduction to scientific work and technical drawing will		lulaciuming
			1
18EKN	Econometrics	Z,ZK	The course
	ised on economic theory and the relations between economic quantities are expressed by mathematical tools and observed data fror ments of econometric analysis as the basic econometric model, the generalized model, the system of simultaneous equations and instr	-	
OOVERS DASIC INSULA	verification.	amento ioi econon	ionio model
18PMTL	Programming in MATLAB	KZ	4
	Programming in WALAB p environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis		
oddonig ivialial	and geometric representation of results.	no, otatiotico, aigui	ZadUII
18PPY1	Programming in Python 1	Z	2
	ces students to advanced features of the Python language and common scientific packages. The course covers both object-oriented as		
	owing part of the course describes the use of Python in the fields of scientific and technical computing (NumPy and SciPy packages), dat		
	5. , , , , , , , , , , , , , , , , , , ,		

18PPY2	Programming in Python 2	Z	2
This course intro	duces students to practical applications of the Python language in scientific as well as commercial fields. The course is a seminar wh	nere each presente	d topic is
	accompanied by a short demo of a real-world application in the specific field.		
18PPY3	Programming in Python 3	Z	2
This advanced cou	se is intended for students who have basic experience with programming in Python and using its libraries. It introduces students to ad	vanced concepts o	f the Python
	language and modules they are based on.		
18PRC1	Programming in C++ 1	Z	4
	This course covers mainly the C programming language and non-object oriented features of the C++ language.	•	
18PRC2	Programming in C++ 2	KZ	4
This co	ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	Template Library.	'
18ZALG	Basics of Algorithmization	Z,ZK	4
This course is	devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	the algorithm com	plexity.
18ZPRO	Basics of Programming	Z	4
This course is in	ntended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program	nming and with the	Python
	programming language.		
B0B36JUL	Julia for optimization and learning	KZ	4
Julia programming	language is increasingly known by the community for its suitability in the field of numerical calculations. The course consists of two particles in the field of numerical calculations are consisted in the field of numerical calculations.	arts. The first part p	oresents the
	second part introduces mathematical optimization and its application in machine learning, statistics and optimal control of differentia		•
	al concepts of Julia, the second part combines them into longer logical sections of code. We explain each application theoretically. S		•
	tions by themselves and compare them with already existing packages. The course ends with a final project. Students can either cho	•	
theses or join a Kag	agle competition with real data. This course is also part of the inter-university programme prg.ai Minor. It pools the best of Al education	• .	ide students
	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
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-19, time 23:53.