## Study plan

## Name of study plan: Matematické inženýrství - Matematické modelování

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Mathematical Engineering

Type of study: Bachelor full-time

Required credits: 0

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

Note on the plan:

Name of the block: Compulsory courses in the specialization

Minimal number of credits of the block: 0

The role of the block: PS

Code of the group: BSPMIMM1

Name of the group: BS P\_MIB MM 1st year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 14 courses

Credits in the group: 0

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

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 Igor Jex (Gar.)	Z	2	2+0	Z	PS
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Ji í Hrivnák, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Ji í Hrivnák (Gar.)	Z,ZK	6	4+2	L	PS
01LAL	Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	2	2P+2C		PS
01LALZ	Linear Algebra 1, exam Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	0P+0C		PS
01LAL2	Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z,ZK	4	2P+2C		PS
01MAN	Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	Z	4	4+4		PS
01MANZ	Calculus 1, exam Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Pavel Strachota (Gar.)	ZK	4	0P+0C		PS
01MAN2	Calculus 2 Miroslav Kolá, Edita Pelantová, Maksym Dreval Edita Pelantová Maksym Dreval (Gar.)	Z,ZK	8	4P+4C		PS
02MECH	Mechanics David Be Antonín Hoskovec David Be (Gar.)	Z	4	4+2	Z	PS
D2MECHZ	<b>Mechanics - Examination</b> Iskender Yalcinkaya, Goce Chadzitaskos, Stanislav Skoupý, David B e , Filip Petrásek, Antonín Hoskovec, Petr Novotný <b>Antonín Hoskovec</b> David B e (Gar.)	ZK	2	-	Z	PS
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	PS
O2TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	PS
18ZALG	Basics of Algorithmization  Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, František Gašpar, Zuzana Pet í ková Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	PS

18ZPRO	Basics of Programming Maksym Dreval, Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, Zuzana Pet í ková, Nichita Vatamaniuc, Jan Vondruška, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	PS
Characteristics of	the courses of this group of Study Plan: Code=BSPMIMM1 Name	BS P_MIB	MM 1st y	ear		
02DEF1	History of Physics 1				Z	2
Physics and its place in	the system of sciences. The relationship of man and nature. Natural sciences in ancient Or	ientand Greece	Greek natu	ral philosoph	ers, Aristotl	e. Physics in
Helenistic period, Archin	ned. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E	Bruno. Copernic	us, Kepler, G	alileo, Huyge	ens. The bir	th of physics
as experimental science	. Newton and his work.					
02ELMA	Electricity and Magnetism			Z	Z,ZK	6
Electric charge, Coulom	b's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectri	ics. Electric curr	ent and circu	its, conducti	vity. Basics	of the relativit
theory. Electrodynamic for	orces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	Electromagnetic	c waves, Ma	xwell equation	ons.	
01LAL	Linear Algebra 1				Z	2
1. Vector space. 2. Linea	r dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces.	5. Linear mappi	ngs. 6. Matri	ces of linear	mappings.	7. Frobenius
theorem.			Ū			
01LALZ	Linear Algebra 1, exam				ZK	2
	Linear Algebra 2			7	Z.ZK	4
	c and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector	r. diagonalizatio	n). 4. Hermiti		-,	•
	ty. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Me		•	•		
•	ulation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.					
complements. 6. Geome	try exercises and examples. 7. Adjoint operators.			,		
						4
01MAN	Calculus 1				Z	4
01MAN Basic calculus (real anal	Calculus 1 ysis, functions of one real variable, differential calculus).				Z	
01MAN Basic calculus (real anal 01MANZ	Calculus 1 ysis, functions of one real variable, differential calculus). Calculus 1, exam				Z ZK	4
01MAN Basic calculus (real anal 01MANZ 01MAN2	Calculus 1 ysis, functions of one real variable, differential calculus). Calculus 1, exam Calculus 2	ce operations o	n sarias abs	7	Z ZK Z,ZK	4 8
01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe	Calculus 1 ysis, functions of one real variable, differential calculus). Calculus 1, exam Calculus 2 intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence	•		Z solute and co	ZK Z,ZK onditional co	4 8 onvergence 3.
01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 Intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic	•		Z solute and co	ZK Z,ZK onditional co	4 8 onvergence 3.
01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 Intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summation thiniques of integration and application of integrals, Generalized Riemann integral	•		Z solute and co	ZK Z,ZK pnditional co	4 8 onvergence 3. definite integra
01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec 02MECH	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 Intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summatical chiniques of integration and application of integrals, Generalized Riemann integral  Mechanics	on of infinite seri	es. 4. Theory	solute and co	ZK Z,ZK Donditional coprimitives,	4 8 onvergence 3. definite integra
01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec 02MECH Introduction to physics, p	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summation chniques of integration and application of integrals, Generalized Riemann integral  Mechanics Chysical quantities and units. Kinematics of a particle, basic types of motion and their super	on of infinite seri	es. 4. Theory	solute and cor of integrals:	ZK Z,ZK onditional coprimitives,	4 8 onvergence 3. definite integr 4 of motion for
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01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec 02MECH Introduction to physics, pone-dimensional motion of a rigid body, rotation.	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 initial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summatice thiniques of integration and application of integrals, Generalized Riemann integral  Mechanics Ohysical quantities and units. Kinematics of a particle, basic types of motion and their supers, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systematics.	on of infinite seri	es. 4. Theory	solute and co of integrals:	ZK Z,ZK onditional coprimitives, Z equations coicle collision	4 8 envergence 3 definite integr 4 of motion for ns. Mechanics
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01MAN Basic calculus (real anal 01MANZ 01MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec 02MECH Introduction to physics, pone-dimensional motion, of a rigid body, rotation. 02MECHZ The content of the subje	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 reserves, the Cauchy-Hadamard theorem, expansion of function into power series, summation the cauchy-Hadamard theorem, expansion of function into power series, summation the cauchy-Hadamard theorem, expansion of function into power series, summation the cauchy-Hadamard theorem, expansion of function into power series, summation the cauchy-Hadamard theorem, expansion of function into power series, summation the cauchy-Hadamard theorem, expansion of function into power series, summation  Mechanics  Mechanics - Examination  ct is the examination according to the plan of studies.	on of infinite seri	es. 4. Theory	solute and co of integrals:	ZK Z,ZK onditional coprimitives, Z equations coicle collision	4 8 provergence 3. definite integral 4 of motion for ns. Mechanics
01MAN Basic calculus (real anal 01MANZ 01MANZ 1. Continuation of difference (Riemann definition), tector (Riemann definition), tecto	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 reserves, the Cauchy-Hadamard theorem, expansion of function into power series, summation the changes of integration and application of integrals, Generalized Riemann integral  Mechanics Chysical quantities and units. Kinematics of a particle, basic types of motion and their supers, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system  Mechanics - Examination  ct is the examination according to the plan of studies.  Preparatory Week	on of infinite seri	es. 4. Theory	solute and cc of integrals: iicle, solving oblems, part	ZK Z,ZK onditional coprimitives, Z equations of icle collision ZK Z	4 8 sonvergence 3. definite integr 4 of motion for ns. Mechanics 2
01MAN Basic calculus (real anal 01MANZ 01MANZ 01MAN2 1. Continuation of difference (Riemann definition), tector (Riemann definition)	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 restricted the Cauchy-Hadamard theorem, expansion of function into power series, summation theorem, expansion of integration and application of integrals, Generalized Riemann integral  Mechanics Chysical quantities and units. Kinematics of a particle, basic types of motion and their supers, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system  Mechanics - Examination  ct is the examination according to the plan of studies.  Preparatory Week  Heat and Molecular Physics	on of infinite seri	es. 4. Theory	solute and co of integrals: icicle, solving oblems, part	ZK Z,ZK onditional coprimitives,  Z equations coolicle collision ZK Z,ZK	4 8 sonvergence 3. definite integr 4 of motion for ns. Mechanics 2 2 4
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D1MAN Basic calculus (real anal D1MANZ D1MANZ D1MAN2 1. Continuation of differe Real and complex power (Riemann definition), tec D2MECH Introduction to physics, pone-dimensional motion of a rigid body, rotation. D2MECHZ The content of the subjection of the subject	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 reseries, the Cauchy-Hadamard theorem, expansion of function into power series, summatice thiniques of integration and application of integrals, Generalized Riemann integral  Mechanics Physical quantities and units. Kinematics of a particle, basic types of motion and their supers, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system  Mechanics - Examination  ct is the examination according to the plan of studies.  Preparatory Week  Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and per	on of infinite seri	es. 4. Theory nics of a part two-body pr	solute and correct of integrals: cicle, solving oblems, part	ZK Z,ZK primitives,  Z equations c icle collision  ZK Z,ZK inciple, idea	4 8 convergence 3. definite integr 4 of motion for ns. Mechanics 2 2 4 all and real gas
O1MAN Basic calculus (real anal O1MANZ O1MANZ O1MAN2 1. Continuation of differe Real and complex power (Riemann definition), ted O2MECH Introduction to physics, pone-dimensional motion of a rigid body, rotation. O2MECHZ The content of the subjection operation of the subjection of t	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 ritial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summation thiniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Physical quantities and units. Kinematics of a particle, basic types of motion and their super, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of the examination according to the plan of studies.  Preparatory Week  Heat and Molecular Physics  aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and perystems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials;	proof infinite sering proposition. Dynamice of particles, netration; 1st and kinetic theory: N	d 2nd therm	solute and correct of integrals:  icicle, solving oblems, part  zodynamic priocity distribu	ZK Z,ZK onditional coprimitives,  Z equations copic collision ZK Z,ZK inciple, idea attion, equipa	4 8 sonvergence 3. definite integree 4 of motion for ns. Mechanics 2 2 4 all and real gas rition theorer 4
O1MAN Basic calculus (real anal O1MANZ) O1MANZ O1MAN2 1. Continuation of difference Real and complex power (Riemann definition), tector of the content of the subject of a rigid body, rotation. O2MECHZ The content of the subject of	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 ritial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summation thiniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Physical quantities and units. Kinematics of a particle, basic types of motion and their super, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of the examination according to the plan of studies.  Preparatory Week  Heat and Molecular Physics  aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and perstems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials;  Basics of Algorithmization	proof infinite sering proposition. Dynamice of particles, netration; 1st and kinetic theory: N	d 2nd therm	solute and correct of integrals:  icicle, solving oblems, part  zodynamic priocity distribu	ZK Z,ZK onditional coprimitives,  Z equations copic collision ZK Z,ZK inciple, idea attion, equipa	4 8 sonvergence 3. definite integree 4 of motion for ns. Mechanics 2 2 4 all and real gas rition theorer 4
O1MAN Basic calculus (real anal O1MANZ O1MANZ O1MAN2 1. Continuation of differe Real and complex power (Riemann definition), ted O2MECH Introduction to physics, pone-dimensional motion of a rigid body, rotation. O2MECHZ The content of the subjection of The Content of Th	Calculus 1 ysis, functions of one real variable, differential calculus).  Calculus 1, exam  Calculus 2 Intial calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence series, the Cauchy-Hadamard theorem, expansion of function into power series, summation chiques of integration and application of integrals, Generalized Riemann integral  Mechanics  Ohysical quantities and units. Kinematics of a particle, basic types of motion and their supers, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of the examination of the plan of studies.  Preparatory Week  Heat and Molecular Physics aterials, heat transfer; stationary and non-stationary heat conduction, heat transfer and perstems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; Basics of Algorithmization as selected algorithms and methods for algorithm design. This course intruduces selected methods.	prosition. Dynantem of particles, netration; 1st an kinetic theory: Nethods for the content of t	es. 4. Theory  nics of a part two-body pr  d 2nd therm Maxwell's vel	solute and correct of integrals:  icicle, solving oblems, part  odynamic priocity distribut  Z of the algor	ZK Z,ZK onditional coprimitives,  Z equations of icle collision ZK Z,ZK inciple, idea attion, equipa Z,ZK ithm comple Z	4 8 sonvergence 3. definite integree 4 of motion for ns. Mechanics 2 2 4 all and real gas rition theorer 4 exity. 4

Code of the group: BSPMIMM3

Name of the group: BS P\_MIB MM 3rd year

Requirement credits in the group:

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

Credits in the group: 0

Note on the group: Zkoušku z předmětu 01RMAF lze skládat až po složení všech zkoušek z Matematické

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
01ALGE	Algebra Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.)	Z,ZK	6	4+1		PS
01BPMI1	Bachelor project 1 Pavel Strachota, Václav K s, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.)	Z	5	0P+5C		PS
01BPMI2	Bachelor project 2 Pavel Strachota, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.)	Z	10	0P+10C		PS
01FKO	Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	3	2+1		PS
01FANA1	Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	5	2P+2C		PS
01FAN2	Functional analysis 2 Pavel Š oví ek Pavel Š oví ek Pavel Š oví ek (Gar.)	Z,ZK	5	2P+2C		PS

01GTDR	Geometric Theory of Ordinary Differential Equations Michal Beneš Michal Beneš (Gar.)	Z	2	0+2	Z	PS
01MAS	Mathematical Statistics Václav K s Václav K s Václav K s (Gar.)	ZK	3	2+0		PS
01MIP	Measure and Probability Václav K s, Tomáš Hobza Tomáš Hobza Václav K s (Gar.)	Z,ZK	6	4+2		PS
01NMA2	Numerical Mathematics 2 Michal Beneš, Tomáš Oberhuber Tomáš Oberhuber Michal Beneš (Gar.)	Z,ZK	3	2P+1C	L	PS
01RMAF	Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.)	Z,ZK	7	4P+2C		PS
01BASE	Bachelor Seminar Payel Strachota (Gar.)	Z	1	0P+2S		PS

Characteristics of the courses of this group of Study Plan: Code=BSPMIMM3 Name=BS P\_MIB MM 3rd year

01ALGE	Algebra	Z,ZK	6	ı
Firstly, the Peano axiom	s are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, t	he axiom of choic	e and equivalent	ı
statements, definition of	ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral d	omains, principal	ideal domains,	ı
fields lattices Indonen	lant chanters are devoted to divisibility in integral demains and to finite fields			ı

01BPMI1 Bachelor project 1 The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common

regular meetings and discussions. 01BPMI2 Ζ 10 Bachelor project 2

The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common regular meetings and discussions.

01FKO **Functions of Complex Variable** The course starts from outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are explained in detail: the derivative of a complex function and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauchy's integral theorem, Morera's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue

01FANA1 Functional Analysis 1 Z,ZK 5 01FAN2 Functional analysis 2 Z.ZK 5

The course aims to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed operators and their spectrum, Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.

01GTDR Geometric Theory of Ordinary Differential Equations Ζ 2

The seminar consists of the qualitative theory of ODEs dealing with the geometric and topological properties of the solution. In this context, we mention suitably formulated basic results of the existence and uniqueness, continuous dependence on parameters and initial conditions. Main part is devoted to the autonomous systems.

Mathematical Statistics ZK 01MAS 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

01MIP Measure and Probability Z.ZK 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).

01NMA2 Numerical Mathematics 2 Z.ZK 3 The course is devoted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. It explains methods converting

boundary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equations

**Equations of Mathematical Physics** The subject of this course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral transformations, and solution of partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).

01BASE Ζ **Bachelor Seminar** 

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

Code of the group: BSPMIMM2

Name of the group: BS P\_MIB MM 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 9 courses

Credits in the group: 0

Note on the group:

theorem

01RMAF

Předmět 02TEF1 lze absolvovat až po absolvování předmětu 02MECHZ.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
01DIFR	Differential Equations Michal Beneš Michal Beneš (Gar.)	Z,ZK	4	2P+2C	L	PS
01LIP	Linear Programming Jan Volec Jan Volec (Gar.)	Z,ZK	3	2+1	Z	PS

01ANA3	Mathematical Analysis A 3 Mat j Tušek, František Štampach, Radek Fu ík František Štampach František Štampach (Gar.)	Z,ZK	9	4P+4C		PS
01ANA4	Mathematical Analysis A 4 František Štampach František Štampach (Gar.)	Z,ZK	9	4P+4C		PS
01NMA1	Numerical Mathematics 1 Tomáš Oberhuber Tomáš Oberhuber (Gar.)	ZK	4	4+0		PS
02TEF1	Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.)	Z,ZK	4	2+2	Z	PS
02TSFA	Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.)	Z,ZK	4	2+2	L	PS
01DYKO	Introduction to Continuum Dynamics Pavel Strachota, Radek Fu ik Pavel Strachota Radek Fu ik (Gar.)	Z,ZK	3	2P+1C		PS
02VOAF	Waves, Optics and Atomic Physics Josef Schmidt Jan Vysoký Ji í Tolar (Gar.)	Z,ZK	6	4+2	Z	PS

Characteristics of the courses of this group of Study Plan: Code=BSPMIMM2 Name=BS P MIB MM 2nd year

Characteristics	s of the courses of this group of Study Plan: Code=BSPMIMM2 Name=BS P_MIB MM 2nd yea	ar	
01DIFR	Differential Equations	Z,ZK	4
The course contain	s introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basic	s of the existence th	eory, solution of
linear types of equa	tions and introduction in the theory of boundary-value problems.		
01LIP	Linear Programming	Z,ZK	3
We study special prinequalities.	oblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given	ven by linear equation	ons and/or linear
01ANA3	Mathematical Analysis A 3	Z,ZK	9
Function sequence	s and series, introduction to topology and metric spaces, differential calculus of functions of several variables.	, ,	
01ANA4	Mathematical Analysis A 4	Z,ZK	9
Inverse and implicit	functions, constrained extrema, measure and integration theory, contour and surface integrals.	, ,	
01NMA1	Numerical Mathematics 1	ZK	4
The course introductheoretical methods	ces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a g	good understanding	of the root of
02TEF1	Theoretical Physics 1	Z,ZK	4
problem, the motion	namics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on eleme n of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral prince course of classical theoretical physics (02TEF1, 02TEF2).		•
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	4
	nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le C	1 '	atistical entropy.
Basics of many boo	y descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-can	onical ensemble, Fer	rmi gas, models
of crystals and the	plack body radiation). The Boltzmann equation is usedto discusses simple transport phenomena.		
01DYKO	Introduction to Continuum Dynamics	Z,ZK	3
The course provide	s a rigorous introduction to the mathematical description of continuum dynamics. In the first part, the necessary mathematical	tools are summarize	d, focusing on
vector and tensor ca	alculus, differential forms, and integration on manifolds. Next, the fundamental concepts such as several deformation tensors and	the substantial (ma	terial) derivative
•	re used subsequently in the derivation of the conservation laws of mass, momentum and energy in both integral and differentia	I forms. The conserv	ation laws are
further adapted to t	he specific cases of viscous and inviscid fluid and linear/nonlinear elastic body.		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
	n mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polar		
	rical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de	Broglie waves,the Se	chrodinger
equation, stationary	states and spectra of finite systems.		

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.

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

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

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

00EKOT	Economy in Technology	Z	1
The course introduces to	he basics of micro- and macroeconomics.		
00ETV	Ethics of Science and Technology	Z	1
00RET	Rhetoric	Z	1
The course is focused of	in the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	e 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  Jana Ková ová, Slav na Brownová <b>Jana Ková ová</b>	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová	ZK	4		Z	PV
04XCESZZK	Czech for Foreigners Beginners - Examination Slav na Brownová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESMZK	Czech for Intermediate Students Examination  Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XCESPZK	Czech for Foreign Students - Advanced Examination Jana Ková ová Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XFMZK	French for Intermediate Students Examination  V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFPZK	French for Advanced Students Examination  V ra Šlechtová V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFZZK	French for Beginners Examination  V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3		L	PV
04XSMZK	Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSPZK	Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	4		Z	PV
04XSZZK	Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

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

04XAMZK	English for Intermediate Students Examination	ZK	4
The course content is the	e examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two par	ts - written (100 n	nin) and oral
(20-30 min). The studer	t is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English cou	rses.	
04XAPZK	English for Advanced Students Examination	ZK	4
The course content is the	e 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 (100 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	essful completion of all three courses. Detailed information is to be obtained from the teacher.		

04XCESMZK Czech for Intermediate Students Examination	71/	4
	ZK	•
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESIVIT, 2,3 COURSES	and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	71/	4
04XCESPZK Czech for Foreign Students - Advanced Examination	ZK	. 4
The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the C	ESP1,2,3 courses	and can only
be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
04XFMZK French for Intermediate Students Examination	ZK	4
The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the content	s of FM1-FM3. The	examination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web.		
04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral pa	rt and is organized	according to
Examination Instructions, 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 examination	mination is ruled b	y the document
Instruction for examination. Its content covers the levels FZ1 - FZ5.		
04XNMZK German for Intermediate Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat	ion consisting of tw	o parts - written
and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asses	sment. More detail	ed information
is to be obtained from the teacher.		
04XNPZK German for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination	on consisting of two	parts - written
and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrad	ed 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 known	wledge and skills a	cquired in RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruc	-	-
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 known		cauired 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 instruct	-	-
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 known of the study plan.		-
- RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instruct	-	-
04XSMZK Spanish for Intermediate Students Examination	ZK	4
	1	-
The course content is the examination as given by the study plan. SMZK examination consists of two parts - written and oral; to be eligible for the written non-graded assessment for course SM3. Oral examination follows the written part.	in part, students w	ii nave obtained
	71/	4
04XSPZK   Spanish for Advanced Students Examination	ZK	4
The course content is the examination as given by the study plan. Examination SPZK consists of two parts, namely oral and written. The prerequisite	for admission to or	ai part is naving
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
	examination only if	he/she has
passed the written examination test.		
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		-

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

The role of the block: V

Code of the group: BSPMIMMV

Name of the group: BS P\_MIB MM Optional courses

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

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
01TA	Algebra and Calculus in Applications Lubomíra Dvo áková, Edita Pelantová Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	V
01DEM	History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	Z	1	0+2	L	V
02DRG	Differential Equations, Symmetries and Groups Libor Šnobl Libor Šnobl (Gar.)	Z	4	2+2	Z	V
01DIM1	Discrete Mathematics 1 Lubomíra Dvo áková, Edita Pelantová, Zuzana Masáková Lubomíra Dvo áková Zuzana Masáková (Gar.)	Z	2	2P+0C	Z	V

01DIM2	Discrete Mathematics 2  Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.)	Z	2	2P+0C	L	V
01DIMA3	Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)	ZK	2	2P+0C		V
01JEPR	Simple Compilers Zden k ulík Zden k ulík (Gar.)	Z	2	2	L	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	V
01MAPR	Markov processes Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	4	2+2		V
00MAM1	Essentials of High School Course 1	Z	1	0+1		V
00MAM2	Essentials of High School Math Course 2  Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		V
01MMPV	Mathematical Models of Groundwater Flow Ji í Mikyška Ji í Mikyška (Gar.)	KZ	2	2+0	L	V
15CH1	General Chemistry 1	Z	3	2+1	Z	V
15CH2	Ond ej Holas, Petr Distler, Václav uba <b>Petr Distler</b> Petr Distler (Gar.)  General Chemistry 2	Z,ZK	3	2+1	L	V
01PGR1	Ond ej Holas, Petr Distler, Václav uba <b>Petr Distler</b> Petr Distler (Gar.)  Computer Graphics 1	Z,ZK	2	1P+1C		V
01PGR2	Pavel Strachota Pavel Strachota (Gar.)  Computer Graphics 2	Z,ZK	2	1P+1C		V
	Pavel Strachota Pavel Strachota (Gar.)  Computer Algebra Systems	-			7	
12PAS	Milan Ši or <b>Milan Ši or</b> Milan Ši or (Gar.)	Z	2	1P+1C	Z	V
01PSR	Principles of Statistical Decision Making  Václav K s Václav K s Václav K s (Gar.)	ZK	2	2+0	L	V
18PROP	Practical training in programming  Jakub Klinkovský Jakub Klinkovský (Gar.)	KZ	3	2C	Z	V
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	V
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.)	KZ	4	2+2	L	V
18PJ	Programming in Java Miroslav Virius Miroslav Virius (Gar.)	Z,ZK	5	2P+2C	Z	V
18PMTL	Programming in MATLAB  Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír  Kukal (Gar.)	KZ	4	4C	Z	V
01PSL	LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (Gar.)	Z	2	0+2	L	V
01SAM	Seminar of Applied Mathematics Milan Krbálek Milan Krbálek Milan Krbálek (Gar.)	Z	2	0P+2S		V
01SSM1	Seminar of Contemporary Mathematics 1  Mat j Tušek Edita Pelantová (Gar.)	Z	2	0+2	Z	V
01SOS1	Software Seminar 1  Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	Z	V
01SOS2	Software Seminar 2  Zden k ulík Zden k ulík Zden k ulík (Gar.)	Z	2	0+2	L	V
TV-1	Physical Education	Z	1		Z	V
TV-2	Physical Education	Z	1		L	V
TV-3	Physical education	Z	1	0+2	Z	V
TV-4	Physical education	Z	1	0+2	L	V
01TKO	Theory of Codes  Edita Pelantová, Jan Volec Edita Pelantová Jan Volec (Gar.)	ZK	2	2P+0C	L	V
01TOP	Topology estmír Burdík estmír Burdík estmír Burdík (Gar.)	ZK	2	2+0	Z	V
14TED	Creating Electronic Documents  Aleš Materna, Ji í Martin ík Aleš Materna Aleš Materna (Gar.)	Z	2	26C		V
02UKP1	Introduction to Curves and Surfaces	Z	2	1P+1C	L	V
18UQI	Ladislav Hlavatý Ladislav Hlavatý (Gar.)  Introduction to quantum informatics Aleš Wodecki Aleš Wodecki (Gar.)	Z	3	2P	L	V
12UNXAP	Introduction to UNIX	Z	2	1P+1C	L	V
12UVP	Milan Kucha ik Milan Kucha ik Milan Kucha ik (Gar.)  Introduction to Scientific Computing	Z	2	1P+1C	L	V
12PYTH	Milan Ši or Milan Ši or Milan Ši or (Gar.)  Scientific Programming in Python	 Z	2	0+2		V
01ZAOS	Jakub Urban, Pavel Váchal <b>Pavel Váchal</b> Pavel Váchal (Gar.) Introduction to Operating Systems	Z,ZK	2	2+0	 L	V
UIZAUS	Zden k ulík <b>Zden k ulík</b> Žden k ulík (Gar.)	۷,۷۲		2+0		V

 ${\bf Characteristics\ of\ the\ courses\ of\ this\ group\ of\ Study\ Plan:\ Code=BSPMIMMV\ Name=BS\ P\_MIB\ MM\ Optional\ courses}$ 

	Algebra and Calculus in Applications	ZK	2
We illustrate methods b	ased on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorem	s are motivated b	y problems from
informatics and they are	e illustrated on problems from informatics.		
02DEF2	History of Physics 2	Z	2
1	al mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. El		
	n, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmani		
	Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er	nergy, Elementary	/ particles,
	ncept of Nature and Universe of today.		
01DEM	History of Mathematics	Z	. 1
1	n of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field	- give their talks of	on varoius topics
from the history of math		7	4
02DRG	Differential Equations, Symmetries and Groups	Z	4
	ure is to teach students computation of symmetries of the differential equations.		
01DIM1	Discrete Mathematics 1	Z	2
	to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2   to recurrence relations. It includes individual problem solving.	Z	2
		71/	
01DIMA3	Discrete Mathematics 3	ZK	2
	oblems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem sol	iving of ones own	choice from the
given literature.	Cimple Compilers	7	
01JEPR	Simple Compilers ysis, code generation, simple optimizations, development environments, reflection.	Z	2
		7	
04AKS	English Conversation the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communi	Z	1
1	ous communication situations and will master their communication strategy. They will also practise their listening skills in orde		
T	lent will be trained to express their ideas clearly and according to current English usage, and become a more confident speak		and participate
01MAPR			4
	Markov processes	Z,ZK	
00MAM1	Essentials of High School Course 1	Z	1
	I to mathematical concepts and methods used in the introductory physics course.	7	
00MAM2	Essentials of High School Math Course 2	Z	1
Review of basics of hig		1/7	
01MMPV	Mathematical Models of Groundwater Flow	KZ	2
1	overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mather part is aimed at selected numerical methods, emphasizing implementation issues related to these methods.	natical formulatio	ns of these
<u> </u>			
15CH1	General Chemistry 1	Z	3
solved in exercises.	icepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic	ai use are iliustra	led by examples
15CH2	General Chemistry 2	Z,ZK	3
	nuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Usin		-
	ciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles a		
in exercises.	opposite the received any to channel processes to decement of the organization and processes also or explained principles of		manipios servou
01PGR1	Computer Graphics 1	Z,ZK	
	semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the stat		7
1			2 ologies, Further,
	problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and	te of the art techn	ologies. Further,
algorithms using knowl	problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and adge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of co	te of the art techn d explanation of th	ologies. Further, e corresponding
1 -		te of the art techn d explanation of th	ologies. Further, e corresponding
1 -	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of cog scientific documents and presentations.	te of the art techn d explanation of th emputer graphics	ologies. Further, e corresponding
the process of authorin	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of co	te of the art techn d explanation of the emputer graphics Z,ZK	ologies. Further, the corresponding approaches in
the process of authorin 01PGR2 The second part of the	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of cog scientific documents and presentations.  Computer Graphics 2	te of the art techn d explanation of the emputer graphics Z,ZK emenon ubiquitou	ologies. Further, le corresponding approaches in 2 s in computer
the process of authorin 01PGR2 The second part of the graphics. Further, a we	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of cogniciant computer Graphics 2  two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenomena.	te of the art techn d explanation of th emputer graphics  Z,ZK emenon ubiquitou on of a 3D scene	ologies. Further, le corresponding approaches in   2  s in computer to its realistic
the process of authorin 01PGR2 The second part of the graphics. Further, a we rendering. Focus is put at FNSPE. The algorith	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of concepts and presentations.  Computer Graphics 2 two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenoist structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtaine in implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theory	te of the art technology to dexplanation of the computer graphics  Z,ZK  comenon ubiquitous on of a 3D scene din a variety of si	ologies. Further, le corresponding approaches in  2 s in computer to its realistic ubjects available
the process of authorin 01PGR2 The second part of the graphics. Further, a we rendering. Focus is put at FNSPE. The algorith using Blender, an open	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of conscientific documents and presentations.  Computer Graphics 2 two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenoidal structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theorysource 3D modeling and rendering software instrument.	te of the art technod explanation of the computer graphics  Z,ZK comenon ubiquitous on of a 3D scene and in a variety of sectical concepts a	ologies. Further, the corresponding approaches in 2 s in computer to its realistic subjects available the demonstrated
the process of authorin 01PGR2 The second part of the graphics. Further, a we rendering. Focus is put at FNSPE. The algorith using Blender, an open 12PAS	edge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of considering scientific documents and presentations.  Computer Graphics 2 two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenoistructured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtaine in implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoresource 3D modeling and rendering software instrument.  Computer Algebra Systems	te of the art technic explanation of the explanation of a 3D scene and in a variety of sizetical concepts a	ologies. Further, le corresponding approaches in  2 s in computer to its realistic abjects available re demonstrated
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01PSL	LaTeX - Publication Instrument	Z	2
	to the basics and facilities of computer typography, particularly to the system LaTeX	_	_
01SAM	Seminar of Applied Mathematics	7	2
	acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. I	_	1
	ics, sociology and psychology. 7. Application of random matrix theory.	- ,g	
01SSM1	Seminar of Contemporary Mathematics 1	Z	2
This seminar provides	a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic	courses of mathe	matics.
01SOS1	Software Seminar 1	Z	2
Java, Java Beans, As	sembly language programming for microprocessors Intel 80x86	•	
01SOS2	Software Seminar 2	Z	2
Graphical libraries G	K+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix I	ike operating syst	ems, especially
for Linux systems. Po	rtability to Microsoft Windows.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
01TKO	Theory of Codes	ZK	2
	ed in error detecting and error correcting codes.		_
01TOP	Topology	ZK	2
-	he systematization and deepening the knowledge of general topology.		-
14TED	Creating Electronic Documents	Z	2
	g and presenting student theses. Individual exercises focus on creating and formatting texts, equations, charts, tables, present		_
office suite.			
office suite.	Introduction to Curves and Surfaces	Z	2
02UKP1	Introduction to Curves and Surfaces e is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts	Z	
02UKP1 The goal of the lecture		Z for the curves are	e introduced
02UKP1 The goal of the lecture	e is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential p	Z for the curves are	e introduced
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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:

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
04XAM1	English for Intermediate Students M1  Jana Ková ová	Z	2	0+2	Z	V
04XAM2	English for Intermediate Students M2  Jana Ková ová	Z	2	0+2	L	V
04XAM3	English for Intermediate Students M3  Jana Ková ová	Z	2	0+2	Z	V
04XAP1	English for Advanced Students P1  Jana Ková ová	Z	2	0+2	Z	V
04XAP2	English for Advanced Students P2  Jana Ková ová	Z	2	0+2	L	V

04XAP3	English for Advanced Students P3 Jana Ková ová	Z	2	0+2	Z	V
04XCESZ1	Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESZ2	Czech for Foreigners - Beginners 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESZ3	Czech for Foreigners - Beginners 3  Jana Ková ová Jana Ková ová (Gar.)	Z	2	2S	Z	V
04XCESM1	Czech for Foreigners - Intermediate 1 Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XCESM2	Czech for Foreigners - Intermediate 2  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	L	V
04XCESM3	Czech for Foreigners - Intermediate 3  Jana Ková ová 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  Jana Ková ová Jana Ková ová (Gar.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2  V ra Slechtová V ra Slechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1	Z	2	0+2	Z	V
04XFP2	V ra Ślechtová V ra Ślechtová (Gar.)  French for Advanced Students P2 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3	Z	2	0+2	Z	V
04XFZ1	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z1	Z	2	0+4	L	V
04XFZ2	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z2	Z	2	0+4	Z	V
04XFZ3	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z3	Z	2	0+4	L	V
04XFZ4	V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z4	Z	2	0+4	Z	V
04XFZ5	V ra Šlechtová V ra Šlechtová (Gar.)  French for Beginners Z5	Z	2	0+4	L	V
04XNM2	V ra Šlechtová V ra Šlechtová (Gar.)  German for Intermediate Students M2	Z	2	0+2	L	V
04XNM1	Miloslava echová Miloslava echová (Gar.)  German for Intermediate Students M1	Z	2	0+2	Z	V
04XNM3	Miloslava echová Miloslava echová (Gar.)  German for Intermediate Students M3	Z	2	0+2	Z	V
04XNP1	Miloslava echová Miloslava echová (Gar.)  German for Advanced Students P1	Z	2	0+2	Z	V
04XNP2	Miloslava echová Miloslava echová (Gar.)  German for Advanced Students P2	Z	2	0+2	L	V
04XNP3	Miloslava echová Miloslava echová (Gar.)  German for Advanced Students P3	Z	2	0+2	Z	V
04XRM1	Miloslava echová Miloslava echová (Gar.)  Russian for Intermediate Students M1	Z	2	0+2	Z	V
04XRM2	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Intermediate Students M2	Z	2	0+2	L	V
04XRM3	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Intermediate Students M3	Z	2	0+2	Z	V
04XRP1	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Advanced Students P1	Z	2	0+2	Z	V
04XRP2	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Advanced Students P2	Z	2	0+2	L	V
04XRP3	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Advanced Students P3	Z	2	0+2	Z	V
04XRZ1	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Beginners Z1	Z	2	0+2	L	V
04XRZ2	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Beginners Z2	Z	2	0+4	Z	V
04XRZ3	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Beginners Z3	Z	2	0+4	L	
04XRZ4	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Beginners Z4	Z	2		Z	V
	Zhanna Isaeva Zhanna Isaeva (Gar.)  Russian for Beginners Z5			0+4		V
04XRZ5	Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V

04XSM1	Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP1	Spanish for Advanced Students P1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
	courses of this group of Study Plan: Code=BSPJAZYKYZAP	Name=BS P	jazyky za	ıp		
-	glish for Intermediate Students M1				Z	2
The course is designed for s	tudents who have successfully completed the full secondary school English language	course at least at	the A2 leve	I of the Com	mon Europea	n Framework
of Reference for Languages	(CEFR). It provides an introduction into English for Specific and Academic Purposes (	(ESP, EAP), i.e i	nto fundame	entals of voc	abulary and s	style typical of
"	communication situations. Thus it covers topics related to the student's life and needs				•	
•	grammar issues used in EAP.					pa.a 10
	graninal issues used in EAF.			1		
04XAM2 En	glish 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 subte	echnical texts, foc	using also n	nore on spec	cific grammar	, functions,
•	SP and EAP (e.g., definition, existence and classification of phenomena, object descript		•	•	•	
revision is included.	5. and 27 ii (org., dominion, oxideoned and ordeonedation of phonometra, object decomp		000.00.00.00	o galaca III.	g	a, y, g.aa.
04XAM3 En	glish for Intermediate Students M3				Z	2
The course develops the skill	s that enable students to cope with features typical of professional style. Increasing atte	ention is paid to de	eveloping su	btechnical vo	cabulary and	d independent
understanding of profession	al texts. Great emphasis is placed on distinguishing different levels of formal and inform	nal oral and writte	en communi	cation and th	neir appropria	te Czech
	includes studying abstracts and rules for writing them as well as basic rules for prepa					
· ·	includes studying abstracts and rules for writing them as well as basic rules for prepa	ing and giving a	Short prese	illation on a	crioseri topic	related to the
student's field.					_	_
04XAP1  En	glish for Advanced Students P1				Z	2
The course is designed for s	tudents who have successfully completed the full secondary school English language	course (at least t	the B1 level	of the Comn	non Europeai	n Framework
of Reference for Languages	- CEFR). It provides an introduction into English for Specific and Academic Purposes	(ESP. EAP), i.e.,	into the fund	damentals of	vocabulary.	functions.
	f professional oral and written communication situations (fundamentals of terms in ma				•	
, , ,,				, 0 1		,
	written communication on topics related to the undergraduate's life and needs. It develo	ps skills for free pr	iolessional v	mung (whun	g a C v, letter	oi application,
polite request). If necessary,	revision of selected grammar topics is included.					
04XAP2 En	glish for Advanced Students P2				Z	2
l I	AP1, thus extending the student's skills for working with subtechnical texts, and even	with professiona	I texts of cho	sen branche	es of science	. According to
	ntrates on chosen grammar topics, but mainly intends to develop understanding of syl	•				ŭ
	ole, a case study). Increasing emphasis is placed on the undergraduate's independen					
			_			_
	ent's subtechnical vocabulary, and includes fundamental notions of chosen branches	or science. It is to	cuseu on ioi	ınaı witting i	noluding the	semence and
	cohesion and coherence in texts.					
04XAP3 En	glish 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 i	nterpret the	text. It includ	les training o	al and written
communication skills and fur	nctions (e.g., expressing an opinion, agreement, and objections; taking part in discuss	ion, note-takina:	summarizing	, writing an	abstract) and	, if possible.
	given or chosen topic and presenting it. The course places emphasis on distinguishir		-		,	
communication.	. g s s. s. soson topic and prosonting it the course places emphasis on distinguishin	. <sub>5</sub> .5.515 51 1011110		yuuyo	J III JIUI U	
					_	
	ech for Foreigners - Beginners 1				Z	2
The course is designed for s	tudents of the English programme. Students will become acquainted with the main cha	aracteristics of Ca	zech (phone	tic and gram	mar features	and they will
acquire basic language and	speaking skills. The course focuses on pronunciation exercises, simple social phrases	, and oral and wr	itten commu	nication in th	ne most comi	mon everyday
situations. The course covers	s roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.					
	ech for Foreigners - Beginners 2				Z	2
	· · ·	knowledge of the	doclonaia-	and confine	ı	
	cation competences acquired in CESZ1 are further developed. Students deepen their	miowisuge of the	. 400101131011	ana conjuga	anon ayaltiil	and practise
	The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.					
04XCESZ3 Cz	ech for Foreigners - Beginners 3				Z	2
The course further develops	the language and communication competences acquired in the XCESZ1 and XCESZ	2 courses. The te	aching focu	ses on buildi	ng up basic v	ocabulary,
fixing correct pronunciation a	and deepening grammar, features through practice, as well as introducing the Czech c	ulture. Students a	are asked to	produce sim	ple texts and	they practise
	hey also practise understanding texts in terms of main ideas or looking for specific deta			-	-	
1.	-, and the second of the					z c.proo
	and the Francisco on the transfer of the t			1	7	
	ech for Foreigners - Intermediate 1				Z	2
The course is focused on cor	rect pronunciation, important morphological phenomena, prepositional phrases, and ve	erb forms as well a	as on extend	ing the stude	ent's vocabula	ary for various
social situations.						

04XCESM2 Czech for Foreigners - Intermediate 2
The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student

in understanding common 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 espect loping the student's writing skills.	ially 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 Eu		
	evision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of s	-	
	le of engineering and professional communication, both in spoken and written form. The topics include University Studies and		•
•	n with teachers and faculty administrators.		
04XCESP2	Czech for Foreigners - Advanced 2	Z	2
	e student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a		
emphasis on individual		na specialist texto	s placing greater
04XCESP3	Czech for Foreigners - Advanced 3	Z	2
	1	= !	_
•	e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation ng skills necessary for professional communication are trained.	on, and, imany, pre	esentation of the
		7	0
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		
	icate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tree	_	
	e problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy	=	
-	s study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, per		
	Iture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work	based on these te	
04XFM2	French for Intermediate Students M2		2
	FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science		
	(passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	ence and technolo	ogy, French
	rchitects. Description of an object, device, shapes, dimensions, material.		
04XFM3	French for Intermediate Students M3	Z	2
	on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (s		
	mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-cl		
	specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative w	· ·	n French articles
and one's own knowled	dge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and c	coherence.	
04XFP1	French for Advanced Students P1	Z	2
FP advanced course TI	ne objective of this three-semester course is to improve and further develop communication in the French language in both wr	itten and oral forn	n. Students will
be able to communicate	e in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gene	eral and technical	information and
to solve problems. FP1	The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are re	epeated and expan	nded: subjonctif,
passé composé-imparf	ait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactiona	al letters, CV, pers	onal statement,
request, answer to an a	dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topi	cs of specialization	on: mathematics,
internet, physics, chem	istry. Reading of technical and popular science texts, further work with these texts and interpretation.		
04XFP2	French for Advanced Students P2	7	2
With the link to P1 cont	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o	n given topics. Fe	_
	ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication of communication are stressed (passive voice, nominalization, word formation).	n given topics. Fe	_
	communication are stressed (passive voice, nominalization, word formation).	n given topics. Fe	_
technical and scientific 04XFP3	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3	Z	atures typical of
technical and scientific 04XFP3 The course is focused of	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in	Z engineering envir	atures typical of  2 conment. Special
technical and scientific 04XFP3 The course is focused of skill - translation of sho	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covered to the communication in the language of the communication in the language.	Z engineering envir	atures typical of  2 conment. Special
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.	Z engineering envir vers a technical /a	atures typical of  2 conment. Special opplied science
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo 04XFZ1	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1	Z engineering envir	2 conment. Special pplied science
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo 04XFZ1 French for beginners TI	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in second	Z engineering envir vers a technical /a  Z socializing and in	2 ronment. Special pplied science 2 professional life.
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo 04XFZ1 French for beginners TI The course includes Fr	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in seench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able	Z engineering envir vers a technical /a  Z socializing and in to communicate	2 ronment. Special pplied science  2 professional life. at elementary
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo 04XFZ1 French for beginners TI The course includes Fr level, actively using the	French for Advanded Students P3  In systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in one reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1  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 seench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdo	Z engineering envir vers a technical /a  Z socializing and in to to communicate ová, French for be	2 ronment. Special applied science  2 professional life. at elementary aginners
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative wo 04XFZ1 French for beginners The course includes Frelevel, actively using the (Francouzština pro za	French for Advanded Students P3  In systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in one reter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1  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 sench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda texts. PX1 is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions,	Z engineering envir vers a technical /a  Z socializing and in a to communicate ová, French for be personal informa	2 ronment. Special applied science  2 professional life. at elementary aginners ation, asking and
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative we 04XFZ1 French for beginners The course includes Frederic level, actively using the (Francouzština pro za giving the directions, si	French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in riter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in sench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda text (ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation.	engineering envir vers a technical /a  Z socializing and in a to communicate ová, French for be personal information and grammar.	atures typical of  2 conment. Special applied science  2 professional life. at elementary aginners attion, asking and
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative we 04XFZ1 French for beginners TI The course includes Fr level, actively using the (Francouzština pro za giving the directions, si 04XFZ2	French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in riter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in search for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdo ate ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation French for Beginners Z2	Z engineering envir vers a technical /a  Z socializing and in a to communicate ová, French for be personal information and grammar.	atures typical of  2 conment. Special applied science  2 professional life. at elementary aginners attion, asking and
technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative we 04XFZ1 French for beginners TI The course includes Fr level, actively using the (Francouzština pro za giving the directions, si 04XFZ2 The course is linking up	French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in other texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in search for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdo ate ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation for Beginners Z2 of with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the scope is given	engineering envir vers a technical /a  Z socializing and in a to communicate ová, French for be a personal information and grammar.  Z the textbook: Prav	atures typical of  2 conment. Special applied science  2 professional life. at elementary aginners ation, asking and action.  2 cda - Pravdová:
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technical and scientific 04XFP3 The course is focused of skill - translation of sho topic. It is a creative we 04XFZ1 French for beginners TI The course includes Fr level, actively using the (Francouzština pro za giving the directions, si 04XFZ2 The course is linking up French for Beginners thanking, travelling, ma	French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in other texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 ne objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in search for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda key). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation for Beginners Z2 of with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication is practiced.	engineering envir vers a technical /a  Z socializing and in a to communicate ová, French for be a personal information and grammar.  Z the textbook: Pravent - disagreement	atures typical of  2 conment. Special applied science  2 professional life. at elementary aginners attion, asking and a control of the contro
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technical and scientific  04XFP3  The course is focused of skill - translation of shot topic. It is a creative work of the course includes French for beginners. The course includes French for beginners of the course includes French for beginners of the course includes French for Beginners. The course is linking up French for Beginners. The course is linking up French for Beginners. The course builts upon the course builts upon Topics, functions and supronunciation practice.  04XFZ4  The course builts upon the course builds up on the course builds upon the course builds upon the course of FJFI. The country and in France, the course of FJFI. The country and in France, the course of FJFI. The country and in France, the course of Frence subjunctive clauses, geodxNM2  The course introduces of the world at the beginn	French for Advanded Students P3  In systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in tere texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covered to compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1  In objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life , in sench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda at ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1 - 4 : introductions, mple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat in pronunciation in provided in the student of th	engineering envir vers a technical /a  Z socializing and in the to communicate ová, French for be personal information and grammar.  Z the textbook: Pravent - disagreemenunication. Specific vertous is roughly entered to really information and loud to the personal information and loud vertous is roughly entered to really information on physics auses, typical contact technology entered to be the personal information of t	atures typical of  2 conment. Special pplied science  2 professional life. at elementary eginners ation, asking and a control of the control
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technical and scientific  04XFP3  The course is focused of skill - translation of shot topic. It is a creative word.  04XFZ1  French for beginners The course includes Frievel, actively using the (Francouzština pro zargiving the directions, si.)  04XFZ2  The course is linking upperent for Beginners and the directions and spronunciation practice.  04XFZ3  The course builts upon Topics, functions and spronunciation practice.  04XFZ4  The course builds up on lessons 19 - 23 of the test Students of FJFI. The country and in France,  04XFZ5  All four skills acquired ingeneral contents is covered to the second subjunctive clauses, get of the world at the beginn practise reading for information of should be subjunctive clauses, get of the world at the beginn practise reading for informatice.	communication are stressed (passive voice, nominalization, word formation).  French for Advanded Students P3 on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in the rexts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cover the compiled from 3 French sources. Preparation of several set topics for oral examination.  French for Beginners Z1 en ebjective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in seen 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 seen 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 seen the respective of this 5-level course is to be able to communicate in French for specific? technical communication and reading of popular science and scientific texts. F21 The objective is to be able knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravde date ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1 - 8 interventions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciat French for Beginners Z2  If rench for Beginners Z2  If rench for Beginners Z3  French for Beginners Z3  French for Beginners Z4  French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecourse covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shop how to write CV, application, topics in mathematics, reading physics - mechanics, inf	engineering envir vers a technical /a  Z socializing and in the to communicate ová, French for be personal information and grammar.  Z the textbook: Pravent - disagreemenunication. Specific vertos is roughly entered to the personal information and loud to the personal information and loud vertos is roughly entered to the personal information and loud vertos is roughly entered to the personal information on physics auses, typical contact technology entered to the personal information of the personal in	atures typical of  2 conment. Special pplied science  2 professional life. at elementary eginners ation, asking and a control of the control

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 an es (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu		
· ·	gether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis	-	
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		
·	or professional discourse (participles, relative clauses).		
04XNP1	German for Advanced Students P1	Z	2
	od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le		
	ien focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on	•	•
i.e., telephoning.	4	,,	,
04XNP2	German for Advanced Students P2	Z	2
· ·	estudents' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while exten-		
	oduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech).	a practising forma	communication,
04XNP3	German for Advanced Students P3	Z	2
	3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vi	ariety of less com	mon situations
	r accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the viscout and subtechnical texts are a substantial and subtechnical texts.		
	ing, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. T	=	•
practice to and from Ge			
04XRM1	Russian for Intermediate Students M1	Z	2
_	for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal		-
	nmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievemen		-
	the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.	riever of the INZZ	course. The
04XRM2	Russian for Intermediate Students M2	Z	2
	the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.		
04XRM3	Russian for Intermediate Students M3	Z	2
in the timetable.	e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h	nowever, for half of	the time allotted
04XRP1	Russian for Advanced Students P1	Z	2
04XRP1 The entrance requirement	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr	1	l
04XRP1 The entrance requirement structures, understanding	be the for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prong the fundamentals of technical language and training writing skills.	acticing more diffi	cult grammar
04XRP1 The entrance requirement structures, understandin 04XRP2	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pring the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2	racticing more diffi	cult grammar
04XRP1 The entrance requirement structures, understanding 04XRP2 The course is based on	be the for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prong the fundamentals of technical language and training writing skills.	racticing more diffi	cult grammar
04XRP1 The entrance requirement structures, understanding 04XRP2 The course is based on	ent for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pring the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives,	racticing more diffi	cult grammar
04XRP1 The entrance requireme structures, understandin 04XRP2 The course is based on structures). Stress is pu 04XRP3 The course is based on	nt for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pring the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to nindependent oral and written communication.  Russian for Advanced Students P3  RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra	Z verb aspects, spe	2 ecific syntactic 2 The RP1 - RP3
04XRP1 The entrance requireme structures, understandin 04XRP2 The course is based on structures). Stress is pu 04XRP3 The course is based on courses require good price structure good price structure good price	Intrometer the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pring the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2  RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to nindependent oral and written communication.  Russian for Advanced Students P3  RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations).	Z verb aspects, spe Z sing, translation).	2 ecific syntactic  2 The RP1 - RP3 elop and expand
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04XRP1 The entrance requirement structures, understanding 04XRP2 The course is based on structures). Stress is pure 04XRP3 The course is based on courses require good puthese skills. Further studevelop their subtechnical topics. 04XRZ1 The course represents the Russian alphabet (for a short text with marked 04XRZ2 The second semester of able to communicate us master further grammat 04XRZ3 The course is based on and listening) and introdunderstood, and to expending the communication on more forms, look up the inform 04XRZ5 The course expects the information from a spece everyday topics. Studying the structures is to the information from a spece everyday topics. Studying the structures is to the information from a spece everyday topics. Studying the structures is the structure of	Int for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, prig the fundamentals of technical language and training writing skills.  Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to nindependent oral and written communication.  Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations); by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and call vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write  Russian for Beginners Z1  The first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Ruser both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaks stress, understand its contents and summarize it.  Russian for Beginners Z2  The programme is designed to teach skills for basic communication in everyday situations and for reading easy and short string short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will ical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.  Russian for Beginners Z3  Russian for Beginners Z4  Russian for Beginners Z5  students are trained to use grammar structures effectively (e.g., irregular veruperatives, cond	Z sing, translation). The courses development of the course several accurately and with the course several accurately and the course several accurate s	2 The RP1 - RP3 elop and expand ation). Students th confidence on  2 Students will be r vocabulary and  2 Students will be r vocabulary and  2 s of reading skills as as to be  2 age of unfamiliar verb patterns and written how to fill in  2 and summarizing lls are trained on

04XSM1	Spanish for Intermediate Students M1	Z	2
The course is desigr	ned for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-sem	nester course deve	lops standard
ocabulary and pays	attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, neg	gative form of the in	mperative, and
subjunctive), to writte	en and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts	or listening to ther	n.
04XSM2	Spanish for Intermediate Students M3	Z	2
The course develops	the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish fo	or specific purpose	s in order to be
able to work with spe	ecialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
The course books ar	e supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of aca	demic style. They	will be compete
enough to use the Ir	ternet in Spanish and search for information of their specialization or field of interest. Students will use the information to write	short articles and	summaries. Th
inal part of the prog	ramme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.		
04XSP1	Spanish for Advanced Students P1	Z	2
Course concentrates	on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communica	ation. Course prere	quisites: level F
of CEFR.			
04XSP2	Spanish for Advanced Students P2	Z	2
Course SP2 is the se	econd part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and s	syntax and focuses	on independe
written communication	on.		
04XSP3	Spanish for Advanced Students P3	Z	2
Course SP3 is the fir	nal part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is	s focused on writte	n communicati
based on what stude	ents will need in their career.		
04XSZ1	Spanish for Beginners Z1	Z	2
Course SZ1 is the fir	st stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and funda	ımental grammar s	tructures and v
be able to communic	cate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish	and will develop it	
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course SZ2 is based	l on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and	lexis will be chose	n so as to enat
them to understand	short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and o	others such as the	Czech Republ
Realia of Spanish-sr	peaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
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-spe	aking countrie
	ays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperati		
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 based	on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spar	nish speaking cour	ntries, mainly o
Snain It navs attenti	on to further grammar topics (perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of	f the imperative, a	nd subjunctive)
	ommunication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.	•	
		Z	2
to written and oral co	Spanish for Beginners Z5 re supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish	_	_

## 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.		l
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
'	Students are introduced to mathematical concepts and methods used in the introductory physics course.	•	ı
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	on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	e composition of pub	lic speech
as well as to its nonv	erbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are a	an integral part of the	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ALGE	Algebra	Z,ZK	6
Firstly, the Peano axiom:	s are treated in detail. Elements of the set theory cover only. equivalence and subvalence, the Cantorov-Bernstein theorem, the	axiom of choice an	d equivalen
statements, definition o	f ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral do	mains, principal idea	al domains,
	fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.		
01ANA3	Mathematical Analysis A 3	Z,ZK	9
<u> </u>	Function sequences and series, introduction to topology and metric spaces, differential calculus of functions of several variances.	ables.	
01ANA4	Mathematical Analysis A 4	Z,ZK	9
·	Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals.	•	

01BASE	Bachelor Seminar	Z	1
In the first part of the	ne seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	uirements for bache	elors degree
' '	ulty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral preser		
the research result	s achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possib	ilities of improving	the students
01BPMI1	performance.	Z	5
	Bachelor project 1  ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project.	_	_
5466.6. p. 6,6	regular meetings and discussions.	,001 0upo. 1.001 uu	9 00
01BPMI2	Bachelor project 2	Z	10
The bachelor proje	ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj	ject supervisor duri	ng common
	regular meetings and discussions.		
01DEM	History of Mathematics	Z	1
The subject has the	e form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - g from the history of mathematics.	ive their talks on va	aroius topics
01DIFR	Differential Equations	Z,ZK	4
	ns introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the		
	linear types of equations and introduction in the theory of boundary-value problems.	•	
01DIM1	Discrete Mathematics 1	Z	2
	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.		
01DIM2	Discrete Mathematics 2	Z	2
0.45.11.40	The seminar is devoted to recurrence relations. It includes individual problem solving.	714	
01DIMA3	Discrete Mathematics 3	ZK	2
Students get to kni	ow problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solvin given literature.	ig of ones own cho	ice irom the
01DYKO	Introduction to Continuum Dynamics	Z,ZK	3
	les a rigorous introduction to the mathematical description of continuum dynamics. In the first part, the necessary mathematical tools	1	_
	calculus, differential forms, and integration on manifolds. Next, the fundamental concepts such as several deformation tensors and the s		
are defined. They	are used subsequently in the derivation of the conservation laws of mass, momentum and energy in both integral and differential form	ns. The conservation	on laws are
	further adapted to the specific cases of viscous and inviscid fluid and linear/nonlinear elastic body.		_
01FAN2	Functional analysis 2	Z,ZK	5
The course aims	to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.	perators and their s	spectrum,
01FANA1	Functional Analysis 1	Z,ZK	5
01FKO	Functions of Complex Variable	Z,ZK	3
	rom outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are ex		_
of a complex functi	on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauch	hy's integral theore	m, Morera's
theorem, roots of a	holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy est	imates, Laurent se	ries, residue
04.0.T.D.D.	theorem.	7	
01GTDR	Geometric Theory of Ordinary Differential Equations sts of the qualitative theory of ODEs dealing with the geometric and topological properties of the solution. In this context, we mention so	Z	2
	of the existence and uniqueness, continuous dependence on parameters and initial conditions. Main part is devoted to the autonomo	=	Dasic results
01JEPR	Simple Compilers	Z	2
	Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.	ı	
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 I	inear mappings. 7.	Frobenius
	theorem.		
01LAL2	Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an	Z,ZK	4 F Cooler
	se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr	•	
	. 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonalit		
	complements. 6. Geometry exercises and examples. 7. Adjoint operators.		_
01LALZ	Linear Algebra 1, exam	ZK	2
01LIP		7.71/	3
	Linear Programming	Z,ZK	
	problems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by		and/or linear
We study special p	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.	linear equations a	
	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1		and/or linear
We study special p	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).	ly linear equations a	4
We study special p	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2	Z,ZK	4 8
01MAN 01MAN2 1. Continuation of	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).	Z,ZK nd conditional conv	4  8 vergence 3.
01MAN 01MAN2 1. Continuation of	roblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an	Z,ZK nd conditional conv	4  8 vergence 3.
01MAN 01MAN2 1. Continuation of	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute alpower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integr	Z,ZK nd conditional conv	4 8 vergence 3.
01MAN 01MAN2 1. Continuation of Real and complex	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an power series, the Cauchy-Hadamard theorem, expansion of function and application of integrals, Generalized Riemann integral	Z  Z,ZK  nd conditional convrals: primitives, def	4  8 vergence 3. inite integral
01MAN  01MAN2 1. Continuation of Real and complex  01MANZ	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute are power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam	Z,ZK nd conditional convaries: primitives, def	8 vergence 3. inite integral
01MAN2 1. Continuation of Real and complex 01MANZ 01MANZ 01MANZ 01MAPR 01MAS The subject is de	Troblems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are given by inequalities.  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute as power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics  woted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statistics	Z,ZK nd conditional convrals: primitives, def	8 vergence 3. inite integral 4 4 3 g unbiased
01MAN2 1. Continuation of Real and complex 01MANZ 01MANZ 01MANZ 01MAPR 01MAS The subject is de	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute at power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics voted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statist minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for h	Z,ZK nd conditional convrals: primitives, def	8 vergence 3. inite integral 4 4 3 g unbiased
O1MAN  O1MAN2  1. Continuation of Real and complex  O1MANZ  O1MANZ  O1MAPR  O1MAS  The subject is de estimators with	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute at power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics woted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statist minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for heading the constraints are given by inequalities.	Z,ZK nd conditional convrals: primitives, def  ZK Z,ZK Z,ZK ZK ical models, finding hypothesis testing to	8 vergence 3. inite integral 4 4 3 g unbiased using the
O1MAN  O1MAN2  1. Continuation of Real and complex  O1MANZ  O1MANZ  O1MAPR  O1MAS  The subject is de estimators with	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute at power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics woted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statist minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for heasure and Probability  Measure and Probability	Z,ZK nd conditional convrals: primitives, def  ZK Z,ZK Z,ZK ZK zK zK ical models, finding hypothesis testing to	8 vergence 3. inite integral  4 4 3 g unbiased using the
O1MAN  O1MAN2  1. Continuation of Real and complex  O1MANZ  O1MAPR  O1MAS  The subject is de estimators with  O1MIP  The subject is devoted by the s	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute at power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics woted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statist minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for heading the constraints are given by inequalities.	Z,ZK nd conditional convrals: primitives, def  ZK Z,ZK Z,ZK ZK ical models, finding hypothesis testing to the stributions of rando	8 vergence 3. inite integral  4 4 3 g unbiased using the  6 m variables.
O1MAN  O1MAN2  1. Continuation of Real and complex  O1MANZ  O1MAPR  O1MAS  The subject is de estimators with  O1MIP  The subject is devoted by the s	Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute at power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integral (Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Markov processes  Mathematical Statistics woted to usage of statistical methods studied in the course of Mathematical statistics. We deal with Fisher information matrix of statist minimal variance, parameter estimation by method of moments and method of maximum likelihood, derivation of critical regions for helping to the course of Mathematical statistics.  Measure and Probability  sted to the introduction to Theory of probability on measure-theoretic level for discrete models, continuous distributions and general discrete.	Z,ZK nd conditional convrals: primitives, def  ZK Z,ZK Z,ZK ZK ical models, finding hypothesis testing to the stributions of rando	8 vergence 3. inite integral  4 4 3 g unbiased using the  6 m variables.

01MMPV	Mathematical Models of Groundwater Flow	KZ	2
The course prov	ides an overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mathem		of these
	problems. The second part is aimed at selected numerical methods, emphasizing implementation issues related to these meth	ods.	
01NMA1	Numerical Mathematics 1	ZK	4
The course introd	uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good	understanding of	the root of
	theoretical methods.		
01NMA2	Numerical Mathematics 2	Z,ZK	3
	ted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations.		-
	dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial difference.		oonvorung
01PGR1	Computer Graphics 1	Z,ZK	2
· · · · · · · · · · · · · · · · · · ·	two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state o	_	
•	ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex	•	
algorithms using i	knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of compared to the course covers the covers to the course covers the covers to the c	puter grapnics app	roacnes in
	the process of authoring scientific documents and presentations.		
01PGR2	Computer Graphics 2	Z,ZK	2
The second part of	of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenom	enon ubiquitous in	computer
graphics. Further,	, a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description	of a 3D scene to i	ts realistic
rendering. Focus is	put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in	a variety of subject	ts available
at FNSPE. The alg	orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic	al concepts are de	monstrated
	using Blender, an open-source 3D modeling and rendering software instrument.		
01PSL	LaTeX - Publication Instrument	Z	2
· · · · · ·	The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX	_ '	_
01PSR		ZK	2
	Principles of Statistical Decision Making		
The subject is devo	oted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual cor	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 tri	ansformations, and	solution of
	partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).		
01SAM	Seminar of Applied Mathematics	Z	2
	and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. Dynamics of crowd movement.	ا namic pricing, 6, 9	
	predictions in economics, sociology and psychology. 7. Application of random matrix theory.	,	
01SOS1	Software Seminar 1	Z	2
013031		۱ ک	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
	for Linux systems. Portability to Microsoft Windows.		
01SSM1	Seminar of Contemporary Mathematics 1	Z	2
This seminar	provides a different approach to those fields of mathematics that are included in curriculum but also to those that are not part of basic	courses of mather	natics.
01TA	Algebra and Calculus in Applications	ZK	2
-	ods based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems at		_
	informatics and they are illustrated on problems from informatics.		
01TKO	Theory of Codes	ZK	2
UTIKO	, , , , , , , , , , , , , , , , , , , ,	ZN	2
	Algebraic methods used in error detecting and error correcting codes.		
01TOP	Topology	ZK	2
	The aim of lecture is the systematization and deepening the knowledge of general topology.		
01ZAOS	Introduction to Operating Systems	Z,ZK	2
Introduc	ction to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Mer	mory mapped files.	
02DEF1	History of Physics 1	Z	2
-	ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo	ı	
	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F	•	•
rioidillollo poriod,	as experimental science. Newton and his work.	, 90.10. 11.10 2.1. 11.	o. pyo.oo
000550		7	
02DEF2	History of Physics 2	Z	. 2
•	of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E		
	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		
and relativistic p	physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear en	ergy, Elementary p	particles,
	standard model. The concept of Nature and Universe of today.		
02DRG			4
J	Differential Equations, Symmetries and Groups	Z	
0	Differential Equations, Symmetries and Groups  The purpose of the lecture is to teach students computation of symmetries of the differential equations.	Z	
	The purpose of the lecture is to teach students computation of symmetries of the differential equations.		6
02ELMA	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism	Z,ZK	_
02ELMA Electric charge, Co	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conductors.	Z,ZK uctivity. Basics of t	_
02ELMA Electric charge, Co theory.	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond  Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Magnetic dipole.	Z,ZK uctivity. Basics of t Maxwell equations.	he relativity
02ELMA Electric charge, Co theory. 02MECH	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics	Z,ZK uctivity. Basics of t Maxwell equations. Z	he relativity
02ELMA Electric charge, Co theory.  02MECH Introduction to ph	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  nysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of	he relativity  4 motion for
02ELMA Electric charge, Co theory.  02MECH Introduction to ph	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  Nysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of	he relativity  4 motion for
02ELMA Electric charge, Co theory. 02MECH Introduction to ph one-dimensional r	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  Dysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of particle collisions.	4 motion for Mechanics
02ELMA Electric charge, Co theory.  02MECH Introduction to ph	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  Nysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems,	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of	he relativity  4 motion for
02ELMA Electric charge, Co theory. 02MECH Introduction to ph one-dimensional r	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  Nysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of particle collisions.	4 motion for Mechanics
02ELMA Electric charge, Co theory. 02MECH Introduction to ph one-dimensional r	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Wechanics  Playsics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of particle collisions.	4 motion for Mechanics
02ELMA Electric charge, Co theory. 02MECH Introduction to phone-dimensional r 02MECHZ 02TEF1	The purpose of the lecture is to teach students computation of symmetries of the differential equations.  Electricity and Magnetism  Dulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, Mechanics  Mechanics  Nysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, of a rigid body, rotation.  Mechanics - Examination  The content of the subject is the examination according to the plan of studies.	Z,ZK uctivity. Basics of t Maxwell equations. Z Iving equations of particle collisions. ZK Z,ZK	4 motion for Mechanics

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). 02TFR Heat and Molecular Physics 7.7K 4 Thermal expansion of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic principle, ideal and real gas, entropy; non-chemical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory. Maxwell's velocity distribution, equipartition theorem. 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. 02UKP1 Introduction to Curves and Surfaces The goal of the lecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts for the curves are introduced Frenets formulae are explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part of the lecture are the examples calculated by students. 02VOAF Waves, Optics and Atomic Physics Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems. 04AKS **English Conversation** 7 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 communication situations and will master their communication strategy. They will also practise their listening 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. 04XAM1 English for Intermediate Students M1 7 2 The course is designed for students who have successfully completed the full secondary school English language course at least at the A2 level of the Common European Framework of Reference for Languages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of vocabulary and style typical of professional oral and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical interest. Attention is also paid to extending the knowledge of grammar issues used in EAP. 04XAM2 English for Intermediate Students M2 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. 04XAMZK English for Intermediate Students Examination 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. 04XAP1 English for Advanced Students P1 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. 04XAPZK English for Advanced Students Examination 7K The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to apply their knowledge obtained in the three AP courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from the student's field of study. 04XCESM1 Czech for Foreigners - Intermediate 1 The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations. 04XCESM2 Czech for Foreigners - Intermediate 2 7 2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas. Czech for Foreigners - Intermediate 3 04XCESM3 Ζ 2 The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills. 04XCESMZK Czech for Intermediate Students Examination The course content is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CESM1,2,3 courses and can only be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.

04XCESP1	Crook for Foreign Ctudents Advanced 1	l Z	2	
	Czech for Foreign Students - Advanced 1			
	the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe			
It is focused partly on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of science. Students are taught the				
basics of function	nal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and '	Student Life. Writte	n practice	
	includes communication with teachers and faculty administrators.			
04XCESP2	Czech for Foreigners - Advanced 2	Z	2	
	Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and			
This course exterio	emphasis on individual work.	opoolanot toxto pia	oning groutor	
0.41/05050		_		
04XCESP3	Czech for Foreigners - Advanced 3	Z	2	
The course develop	os the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation,	and, finally, presen	tation of the	
	student's project. Writing skills necessary for professional communication are trained.			
04XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4	
	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	1	d can only	
	be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.	, <u>_</u> ,o oou.ooo u	u can chi,	
0.41/05074		_		
04XCESZ1	Czech for Foreigners - Beginners 1	Z	2	
The course is design	gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	rammar features) a	and they will	
acquire basic langu	uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	in the most commo	on everyday	
	situations. The course covers roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová.			
04XCESZ2	Czech for Foreigners - Beginners 2	7	2	
	communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and co	_	_	
The language and		njugation system a	na practise	
0.4)/05055	basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	_		
04XCESZ3	Czech for Foreigners - Beginners 3	Z	2	
The course further	er develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	building up basic v	ocabulary,	
fixing correct pronu	inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce	simple texts and the	ney practise	
frequent types of di	ialogue. 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 e	śtina expres	
	1.		•	
04XCESZZK	Czech for Foreigners Beginners - Examination	ZK	4	
			- 1	
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	written 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	ansmit general and	technical	
	solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically solves are supplied to the course builds on an and further develops linguistic competence acquired at secondary school. It revises, systematically supplied to the course builds on an acquired at secondary school.	-		
	vious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, person	-		
	French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo	· · · · · · · · · · · · · · · · · · ·		
		_		
04XFM2	French for Intermediate Students M2	7		
*			2	
-	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science tex			
Course FM2 builds	on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science tex nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie	ts, features typical	or technical	
Course FM2 builds		ts, features typical	or technical	
Course FM2 builds and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material.	ts, features typical	or technical y, French	
Course FM2 builds and scientific lar	nguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3	ts, features typical ence and technolog	for technical y, French	
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04XFZ2	French for Beginners Z2	Z	2
	ing up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the nners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
_	, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communic	-	
	How does the machine work? A few expressions concerning the study. Name of University and Faculty.		
04XFZ3	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 - Prass and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info		-
	pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.		ao part o:
04XFZ4	French for Beginners Z4	Z	2
	s up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor		
	the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shopping the course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, shopping the course covers generals and specific topics:		
	country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet	-	,
04XFZ5	French for Beginners Z5	Z	2
· · · · · · · · · · · · · · · · · · ·	ired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To	=	
•	of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla		
	subjunctive clauses, gerund, passive.		
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 examination Instruction for examination. Its content covers the levels FZ1 - FZ5.	ation is ruled by th	e document
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	ructures (e.g. the p	assive) and
	n processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu	•	
environmentaris	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		III.ais OI II
04XNM2	German for Intermediate Students M2	Z	2
	ices other more complex grammatical structures and their application in communication based on technical texts, such as the relation be		-
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and or information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemation		
practise reading to	phenomena important for professional discourse (participles, relative clauses).	cally revises officer	grammatical
04XNM3	German for Intermediate Students M3	Z	2
	ices other more complex grammatical structures and their application in communication based on technical texts, such as the relation be		-
	beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and or information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati		
, 3 .	phenomena important for professional discourse (participles, relative clauses).	,	9
04XNMZK	German for Intermediate Students Examination	ZK	4
	it is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of over the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment.		
and oral, which co	is to be obtained from the teacher.	ent. More detailed	IIIIOIIIIalioii
04XNP1	German for Advanced Students P1	Z	2
	res good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level	_	-
	se is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for do mar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on prac	•	•
g	i.e., telephoning.	,,,	,
04XNP2	German for Advanced Students P2	Z	2
	ps the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending	•	
	It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra oth written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indi	-	imunication,
04XNP3	German for Advanced Students P3	Z	2
	sts of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety	-	
	nd car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocangineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.		
•	d to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The compact of the practice to and from German.		
04XNPZK	German for Advanced Students Examination	ZK	4
	nt is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination of		
and oral, which	cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded information is to be obtained from the teacher.	assessment. Mor	e detailed
04XRM1	Russian for Intermediate Students M1	Z	2
	gned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (		1
-	or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking		
iney can use ba	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
	The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the		'
04XRM3	Russian for Intermediate Students M3	Z	2
rne course develo	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	ver, for half of the	urne allotted
	in the timetable.		

04XRMZK Russian for Intermediate Students Examination ZK	
1433dillol intermediate Statemation	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 knowledge and skills acquired in	n RM1
- RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructions by the teacher.  O4XRP1 Russian for Advanced Students P1 Z	2
04XRP1   Russian for Advanced Students P1   Z   The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult gram	
structures, understanding the fundamentals of technical language and training writing skills.	
04XRP2 Russian for Advanced Students P2 Z	2
The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntax	tactic
structures). Stress is put on independent oral and written communication.	
04XRP3   Russian for Advanced Students P3   Z	2
The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and e	I
these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Stu	
develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confider	nce on
technical topics.	
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 knowledge and skills acquired in RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by the teacher.	1 RP1
04XRZ1 Russian for Beginners Z1 Z	2
The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian. Thus it begins with mas	
the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be able to	- 1
a short text with marked stress, understand its contents and summarize it.	
04XRZ2 Russian for Beginners Z2 Z	2
The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtechnical texts. Students with communication in everyday situations and for reading easy and short subtechnical texts. Students with communication in everyday situations and for reading easy and short subtechnical texts. Students with communication in everyday situations and for reading easy and short subtechnical texts. Students with communication in everyday situations and for reading easy and short subtechnical texts. Students with everyday situations and for reading easy and short subtechnical texts. Students with everyday situations and for reading easy and short subtechnical texts. Students with everyday situations and for reading easy and short subtechnical texts.	
able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also develop their vocabula master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.	iy anu
04XRZ3 Russian for Beginners Z3 Z	2
The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training various forms of reading	
and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be able to respond so as to	o be
understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.	
04XRZ4   Russian for Beginners Z4   Z   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 unfa	2
words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs, differences in verb patt	I
from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and practice oral and writering the conditional structure.	
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.	
04XRZ5   Russian for Beginners Z5   Z   The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summa	2
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 train	arizina l
	- 1
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partic	ned on
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partic passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)	ned on iples,
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  04XRZZK Russian for Beginners Examination ZK	ned on iples,
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everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  O4XRZZK Russian for Beginners Examination  The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in	ned on iples,  3 n RZ1
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everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  04XRZZK Russian for Beginners Examination  ZK  The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher.  04XSM1 Spanish for Intermediate Students M1 Z  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 stan 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 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 Z  The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order able to work with specialized texts on the Internet.  04XSM3 Spanish for Intermediate Students M3 Z  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 comenough 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 summarie final part of the programme, general Spanish course based on course boo	and
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everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partic passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  AXRZXK Russian for Beginners Examination  Russian for Beginners Examination  Resonance content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher.  O4XSM1 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 stan 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 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.  O4XSM2 Spanish for Intermediate Students M3  The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order able to work with specialized texts on the Internet.  O4XSM3  Spanish for Intermediate Students M3  Z  The course supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be comencing the literature of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination.  O4XSMZK  Spanish for Intermediate Students Examination  O4XSMZK  Spanish for Advanced	and
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  4	and
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  4 CAKRZK  The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in -RZS. Students are eligible for the oral examination only after a prior pass in RZS and a successful written examination. Students are given instructions by the teacher.  4 CAYSM1  Spanish for Intermediate Students M1  Focurse 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 stan 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 subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listenting to them.  4 CAYSM2  Spanish for Intermediate Students M3  Z  The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order able to work with specialized texts on the Internet.  5 Apanish for Intermediate Students M3  Z  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 come 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 summarie final part of the programme, general Spanish course based on course books, covers presentations and, finally	and
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partic passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, pollte request, etc.)  AKZX  Russian for Beginners Examination  Russian for Intermediate Students are given instructions by the teacher.  AVXSM1  Spanish for Intermediate Students M1  Z  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 star 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 subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, rowith the students are trained by reading texts or listening to them.  04XSM2  Spanish for Intermediate Students M3  Z  The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order able to work with specialized texts on the Internet.  04XSM3  Recourse books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be come enough to use the Internet in Spanish and search for information of their speciali	and
everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, partice passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.)  4 CAKRZK  The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in -RZS. Students are eligible for the oral examination only after a prior pass in RZS and a successful written examination. Students are given instructions by the teacher.  4 CAYSM1  Spanish for Intermediate Students M1  Focurse 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 stan 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 subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listenting to them.  4 CAYSM2  Spanish for Intermediate Students M3  Z  The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order able to work with specialized texts on the Internet.  5 Apanish for Intermediate Students M3  Z  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 come 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 summarie final part of the programme, general Spanish course based on course books, covers presentations and, finally	and

			,
04XSZ1 Course SZ1 is the	Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamen	Z	2 tures and will
	communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span	-	
04XSZ2	Spanish for Beginners Students Z2	Z	2
	ed on course SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis d short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and other		
nem to understant	Realia of Spanish-speaking countries are also included.	3 30011 03 1110 020	он поравно.
04XSZ3	Spanish for Beginners Z3	Z	2
	ed on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the		
mainly of Spain.	It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative communication on a given general topic, for which the student is trained by reading texts or listening to them.	). It includes writte	en and oral
04XSZ4	Spanish for Beginners Z4	Z	2
	ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish	_	_
Spain. It pays atte	ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the	=	subjunctive),
0.41/075	to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listeni		
04XSZ5	Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for Spanish for Beginners Z5.	Z	2 as In its final
The course books	part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina		
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 h	ne/she has
	passed the written examination test.		
12PAS	Computer Algebra Systems	Z	2
riactically offente	d introduction to computer algebra systems (CAS): their main characteristics, ways and means of using them. Constituent part is rea students acquire basic skills with CAS by solving relatively simple and basic tasks from mathematics and physics.	izea iri computer (	uassrooms:
12PYTH	Scientific Programming in Python	Z	2
	rise is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place	_	I
problems. The c	ourse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude	nt theses. Student	ts 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		•
greater part of th	ne course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy library. We show how to generate efficient code, how to combine Python with other languages, what tools are available.	and the Matplotli	b graphics
12UNXAP	Introduction to UNIX	Z	2
_	pperating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfa	_	I
Principles of opera	ting systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working wi	th files. Text editor	rs: vi, emacs.
-	reter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard t		
X-windows. Cor	nputer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a c hardware sharing, mail, scp, etc. Network applications	omputer. Network	services:
12UVP	Introduction to Scientific Computing	Z	2
	Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with s	_	1
	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 doc	uments in an
15CH1	office suite.  General Chemistry 1	Z	3
	General Chemistry i   t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u	1	_
,	solved in exercises.		., ,
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	-	
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 exar	mples solved
18PJ	Programming in Java	Z,ZK	5
101.3	This course is devoted to the Java platform and to the development of the basic types of applications for this platform.	۷,۷۲۸	1 3
18PMTL	Programming in MATLAB	KZ	4
	o environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy		rithmization
	and geometric representation of results.		
18PRC1	Programming in C++ 1	Z	4
400000	This course covers mainly the C programming language and non-object oriented features of the C++ language.	1/7	1 4
18PRC2	Programming in C++ 2 ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard	KZ	4
18PROP	Practical training in programming	KZ	3
	course is to understand advanced topics related to programming, code design and software project development. Students will practic		1
_	rete real-world examples. Emphasis is put on the review of freely available software tools that can improve the programmers work effi		-
	of the final source code.		1
18UQI	Introduction to quantum informatics	Z	3
	tion has been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis on qu		
		roquicito omaces	or meoretica
	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the	requisite amount	
some of the most in	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the underpinning.		
some of the most in	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the	Z,ZK	4
some of the most in	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the underpinning.  Basics of Algorithmization	Z,ZK	4
18ZALG This course is	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the underpinning.  Basics of Algorithmization s devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of	Z,ZK the algorithm com	4 applexity.
18ZALG This course is	mportant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with the underpinning.  Basics of Algorithmization so devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of Basics of Programming	Z,ZK the algorithm com	4 applexity.

TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1

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