## Study plan

## Name of study plan: Fyzikální inženýrství - Fyzika plazmatu a termojaderné fúze

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Physical 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: BSPFIFPTF1

Name of the group: BS P\_FIB FPTF 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

Note on the gre	zkoušky 01LALZ je získání zápočtu z 01	LAL '				
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
02ELMA	Electricity and Magnetism Iskender Yalcinkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (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
02MECHZ	Mechanics - Examination Iskender Yalcınkaya, Goce Chadzitaskos, Stanislav Skoupý, Petr Novotný, David Be, Filip Petrásek, Antonín Hoskovec Antonín Hoskovec David Be (Gar.)	ZK	2	-	Z	PS
00PT	Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.)	Z	2	týden	Z	PS
02SFP	Seminar in Plasma Physics Jana Brotánková Vojt ch Svoboda (Gar.)	Z	2	0P+2S	L	PS
02TER	Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.)	Z,ZK	4	2+2	L	PS
12ULTB	Introduction to Laser Technique  Helena Jelínková, Jan Šulc, Michal N mec Jan Šulc Helena Jelínková (Gar.)	KZ	3	2P+1C	L	PS

18ZPRO	Basics of Programming Maksym Dreval, Nichita Vatamaniuc, Jan Vondruška, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Miroslav Virius Miroslav Virius (Gar.)	Z	4	4C	Z	PS
Characteristics	of the courses of this group of Study Plan: Code=BSPFIFPTF1 Name	e=BS P_FIB	FPTF 1s	t year		
02ELMA	Electricity and Magnetism			Z	Z,ZK	6
Electric charge, Coul	lomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectr	ics. Electric curr	ent and circu	its, conducti	ivity. Basics	of the relativity
theory. Electrodynam	ic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits.	. Electromagneti	c waves, Ma	xwell equation	ons.	
01LAL	Linear Algebra 1				Z	2
1. Vector space. 2. Li	near 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.						
01LALZ	Linear Algebra 1, exam				ZK	2
01LAL2	Linear Algebra 2			Z	Z,ZK	4
Outline: 1. Inverse ma	atrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvecto	r, diagonalizatio	n). 4. Hermiti	1	, ,	5. Scalar
oroduct and orthogo	nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Me	ethods for calcul	ation of inve	rse matrices	s. 2. Method	s of calculation
of determinants. 3. C	alculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form.	5. Scalar produc	ct and orthog	onality. Calc	culation of c	orthogonal
complements. 6. Geo	ometry exercises and examples. 7. Adjoint operators.					
1MAN	Calculus 1				Z	4
Basic calculus (real a					,	
	analysis, functions of one real variable, differential calculus).					
•	Calculus 1, exam				ZK	4
01MANZ 01MAN2		ce, operations o	n series, abs	Z	Z,ZK	8
01MANZ 01MAN2 . Continuation of dif Real and complex po Riemann definition),	Calculus 1, exam Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral			solute and co	Z,ZK onditional conditional co	8 onvergence 3. definite integra
01MANZ 01MAN2 . Continuation of dif Real and complex po Riemann definition), 02MECH	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics	on of infinite seri	es. 4. Theory	solute and co	Z,ZK onditional conditional co	8 onvergence 3. definite integra
01MANZ 01MAN2 I. Continuation of dif Real and complex po Riemann definition), 02MECH ntroduction to physic	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Desprished a particle, basic types of motion and their superical superical particles.	on of infinite seri	es. 4. Theory	solute and co	Z,ZK onditional control contro	8 onvergence 3. definite integra  4 of motion for
D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH ntroduction to physic one-dimensional motores	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Des., physical quantities and units. Kinematics of a particle, basic types of motion and their superion, 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	Z,ZK onditional control contro	8 onvergence 3. definite integra  4 of motion for
01MANZ 01MAN2 . Continuation of dif Real and complex po Riemann definition), 02MECH ntroduction to physione-dimensional motor a rigid body, rotation	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Description of the provided in	on of infinite seri	es. 4. Theory	solute and corrections of integrals:	Z,ZK onditional c : primitives,  Z equations of ticle collisio	8 onvergence 3. definite integra  4 of motion for ns. Mechanics
D1MANZ D1MAN2 . Continuation of dif Real and complex po Riemann definition), D2MECH ntroduction to physic one-dimensional mot of a rigid body, rotatio	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Application of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination	on of infinite seri	es. 4. Theory	solute and corrections of integrals:	Z,ZK onditional control contro	8 onvergence 3. definite integra  4 of motion for
D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH ntroduction to physic pne-dimensional mot of a rigid body, rotatio D2MECHZ The content of the su	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Des., physical quantities and units. Kinematics of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Ubject is the examination according to the plan of studies.	on of infinite seri	es. 4. Theory	solute and corrections of integrals:	Z,ZK onditional co primitives,  Z equations of ticle collisio	8 onvergence 3. definite integra  4 of motion for ns. Mechanics
D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH ntroduction to physic one-dimensional mot of a rigid body, rotatio D2MECHZ The content of the su D0PT	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Des., physical quantities and units. Kinematics of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Understanding to the plan of studies.  Preparatory Week	on of infinite seri	es. 4. Theory	solute and corrections of integrals:	Z,ZK onditional conditional co	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2
D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH one-dimensional mot of a rigid body, rotation D2MECHZ The content of the su D0PT D2SFP	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen of tweer series, the Cauchy-Hadamard theorem, expansion of function into power series, summation techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Description, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Wechanics - Examination  Ubject is the examination according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics	on of infinite seri	es. 4. Theory	solute and corrections of integrals:	Z,ZK onditional co primitives,  Z equations of ticle collisio	8 onvergence 3. definite integra  4 of motion for ns. Mechanics
D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH one-dimensional mot of a rigid body, rotation D2MECHZ The content of the su D0PT D2SFP	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Des., physical quantities and units. Kinematics of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Understanding to the plan of studies.  Preparatory Week	on of infinite seri	es. 4. Theory	zoolute and correction of integrals:	Z,ZK onditional c : primitives,  Z equations of ticle collision  ZK  Z Z	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2
D1MANZ D1MAN2 Continuation of different processor of definition), D2MECH introduction to physic pre-dimensional motor a rigid body, rotation D2MECHZ The content of the support	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen of tweer series, the Cauchy-Hadamard theorem, expansion of function into power series, summation techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Description, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Wechanics - Examination  Ubject is the examination according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics	on of infinite seri	es. 4. Theory	zoolute and correction of integrals:	Z,ZK onditional conditional co	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2
D1MANZ D1MAN2 Continuation of dif Real and complex po Riemann definition), D2MECH ntroduction to physic one-dimensional mot of a rigid body, rotatio D2MECHZ The content of the su D0PT D2SFP First contact of stude D2TER Thermal expansion of	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen wer series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Se, physical quantities and units. Kinematics of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Ubject is the examination according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics  Interview of plasma physics  Int	on of infinite seri	es. 4. Theory nics of a part two-body pr	zoolute and correction of integrals:	Z,ZK onditional compressions of the collision of the coll	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2 2 2 4 al and real gas.
D1MANZ D1MAN2 1. Continuation of different expension of content of the support of	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  In Mechanics  Mechanics and units. Kinematics of a particle, basic types of motion and their superation, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  In Mechanics	on of infinite seri	es. 4. Theory nics of a part two-body pr	solute and corrections of integrals:  cicle, solving oblems, part	Z,ZK onditional compression of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas artition theorem
D1MANZ D1MAN2 1. Continuation of different and complex por Riemann definition), D2MECH introduction to physicione-dimensional motor a rigid body, rotation D2MECHZ The content of the support D2SFP First contact of stude D2TER Thermal expansion contropy; non-chemical 2ULTB	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  See, physical quantities and units. Kinematics of a particle, basic types of motion and their superation, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system.  Mechanics - Examination  Jubject is the examination according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics  Intervalvation of plasma physics.  Heat and Molecular Physics  of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and peal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials  Introduction to Laser Technique	rposition. Dynantem of particles,	es. 4. Theory  nics of a part two-body pr	solute and corrections of integrals:  cicle, solving oblems, part	Z,ZK onditional compression of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas. artition theorem  3
D1MANZ D1MANZ D1MAN2 . Continuation of different processor of the second proce	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergen wer series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Ses, physical quantities and units. Kinematics of a particle, basic types of motion and their superion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Ubject is the examination according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics  Interior and Molecular Physics  of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and peal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials  Introduction to Laser Technique  magnetic radiation sources; laser principle; classification of lasers; characterization and rough and peal systems.	rposition. Dynantem of particles,	es. 4. Theory  nics of a part two-body pr	solute and corrections of integrals:  cicle, solving oblems, part	Z,ZK onditional compression of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas artition theorem 3
D1MANZ D1MANZ D1MAN2 I. Continuation of dif Real and complex po Riemann definition), D2MECH Introduction to physic pone-dimensional mot of a rigid body, rotatio D2MECHZ The content of the su D0PT D2SFP First contact of stude D2TER Thermal expansion of entropy; non-chemica 12ULTB Dverview of electrom aser amplifier, Q-swi	Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergent over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Indication, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Indication according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics  Interest and Molecular Physics  Introduction to Laser Technique  Introduction sources; laser principle; classification of lasers; characterization and rough a stetching, mode-locking.	rposition. Dynantem of particles,	es. 4. Theory  nics of a part two-body pr	solute and corrections of integrals:  cicle, solving oblems, part	Z,ZK onditional composition of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas, artition theorem 3 ecautions. The
D1MANZ D1MANZ D1MAN2 L. Continuation of dif Real and complex por Riemann definition), D2MECH Introduction to physic Interduction to physi	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergent over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  In Mechanics  Mechanics and units. Kinematics of a particle, basic types of motion and their superition, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system.  Mechanics - Examination  In Mechanics - Examination  Introduction of plasma Physics  Introduction to Laser Technique  Introduction to Laser Technique  Introduction, mode-locking.  Basics of Programming	rposition. Dynantem of particles, enetration; 1st an	d 2nd therm Maxwell's vel	solute and cor of integrals:  icicle, solving oblems, part  odynamic procity distribution of lasers; lase	Z,ZK onditional compression of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas, artition theorem 3 ecautions. The
D1MANZ D1MANZ D1MAN2 . Continuation of dif Real and complex por Riemann definition), D2MECH nitroduction to physic one-dimensional mot of a rigid body, rotatio D2MECHZ The content of the su D0PT D2SFP First contact of stude D2TER Thermal expansion of entropy; non-chemical D2ULTB Dverview of electromaser amplifier, Q-swi 18ZPRO	Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergent over series, the Cauchy-Hadamard theorem, expansion of function into power series, summatic techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  Indication, motion in a central force field, forces in non-inertial reference frames. Mechanics of a systom.  Mechanics - Examination  Indication according to the plan of studies.  Preparatory Week  Seminar in Plasma Physics  Interest and Molecular Physics  Interest and Molecular Physics  Introduction to Laser Technique  Introduction to Laser Technique  Introduction sources; laser principle; classification of lasers; characterization and rough a steching, mode-locking.  Basics of Programming  ed mainly for students with little or no experience in programming. It familiarizes the students of the plan of studies in the plan of studies.	rposition. Dynantem of particles, enetration; 1st an	d 2nd therm Maxwell's vel	solute and cor of integrals:  icicle, solving oblems, part  odynamic procity distribution of lasers; lase	Z,ZK onditional compression of the collision of the colli	8 onvergence 3. definite integra  4 of motion for ns. Mechanics  2  2  2  4 al and real gas artition theorem 3 ecautions. The

Code of the group: BSPFIFPTF2

Name of the group: BS P\_FIB FPTF 2nd year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 10 courses

Credits in the group: 0

Note on the group.

Předmět 02TFF1 lze absolvovat až no absolvování předmětu 02MFCHZ

Note on the group	eredmet uz i EF i ize absolvovat	az po absoi	ivovani p	preamett	J UZIVIECH	Ζ.
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
02EXF	Experimental Physics Jaroslav Adam, Barbara Antonina Trzeciak, Jaroslava Óbertová, Katarína K ížková Gajdošová <b>Jaroslava Óbertová</b> Katarína K ížková Gajdošová (Gar.)	ZK	2	2P+0C	Z	PS
02PRA1	Experimental Laboratory 1 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	Z	PS
02PRA2	Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.)	KZ	6	0+4	L	PS
01ANB3	Calculus B 3 Miroslav Kolá , Milan Krbálek Milan Krbálek Miroslav Kolá (Gar.)	Z,ZK	8	4P+4C		PS
01ANB4	Calculus B 4 Ji í Mikyška, Miroslav Kolá <b>Ji í Mikyška</b> Milan Krbálek (Gar.)	Z,ZK	6	2P+4C		PS
12NME1	Numerical Methods 1 Pavel Váchal Pavel Váchal Pavel Váchal (Gar.)	Z,ZK	4	2+2	L	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
02UPP	Laboratory of Plasma Diagnostics Jana Brotánková, Vojt ch Svoboda <b>Jana Brotánková</b> Jana Brotánková (Gar.)	KZ	3	0P+2L	L	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=BSPFIFPTF2 Name=BS P\_FIB FPTF 2nd year

**Experimental Physics** ZK 2 The goal of this subject is to introduce the students the principles of physics measurements, their techniques, methods and instruments that are used for such measurements, and the analysis of measured data 02PRA1 Experimental Laboratory 1 Lecture is intended especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering). But it can be also attended by students interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with theliterature), the implementation of the measurement (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation of results. At the same time practically extendthe knowledge gained in lectures on physics. 02PRA2 ΚZ Experimental Laboratory 2 Lecture is intended especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering). But it can be also attended by students interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with theliterature), the implementation of the measurement (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation of results. At the same time practically extendthe knowledge gained in lectures on physics. 01ANB3 Calculus B 3 Z,ZK 1. Functional sequences and series - convergence range, criteria of uniform convergence, continuity, limit, differentiation and integration of functional series, power series, Series Expansion, Taylor's theorem. 2. Ordinary differential equations - equations of first order (method of integration factor, equation of Bernoulli, separation of variables, homogeneous equation and exact equation) and equations of higher order (fundamental system, reduction of order, variation of parameters, equations with constant coefficients and special right-hand side, Euler differential equation). 3. Metric spaces - metric, norm, scalar product, neighborhood, interior and exterior points, boundary point, isolated and non-isolated point, boundary of set, completeness of space, Hilbert spaces. Orthogonal polynomials. Complete orthogonal systems. 4. Fourier series - expansion of functions into Fourier series, trigonometric Fourier series and their convergence. 5. Differential calculus of functions of several variables - limit, continuity, partial and directional derivative, gradient, total derivatives and tangent plane, Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations. 01ANB4 Calculus B 4 7 7K [1] Diferenciální po et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných [4] Regulární zobrazení, zám na prom nných, nekartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konstrukce Lebesgueovy míry. [7] Integrální po et funkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgueova v ta. Limita, spojitost a derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty. 12NME1 Numerical Methods 1 Z.ZK There are explained the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Methods for solution of tasks very important for physicists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computational environment MATLAB is used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. 02TEF1 Theoretical Physics 1 Z.ZK 4 The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms as well as diferent approaches to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2). Thermodynamics and Statistical Physics Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelier principle. Statistical entropy.

Basics of many body descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical ensemble, Fermi gas, models of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.

02UPP	Laboratory of Plasma Diagnostics	KZ	3
Getting familiar with ba	sic measurements of diffefent processes in fusion devices. Getting through basic theory, and data processing.		
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6

Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction 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.

Code of the group: BSPFIFPTF3

Name of the group: BS P FIB FPTF 3rd 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:

Zkoušku z předmětu 01RMFB lze skládat až po složení všech zkoušek z Matematické

analýzy a Lineární algebry

	analyzy a Linearn algebry.					
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
02BPTF1	Bachelor Thesis 1 Jana Brotánková	Z	5	0+5	Z	PS
02BPTF2	Bachelor Thesis 2 Jana Brotánková Igor Jex (Gar.)	Z	10	0+10	L,Z	PS
17ENER	Energy Ond ei Novák, Miloš Tichý Miloš Tichý (Gar.)	ZK	2	2P	L	PS

02KF	Quantum Physics Filip Petrásek Petr Jizba Petr Jizba (Gar.)	Z,ZK	3	2P+1C	Z	PS
01PRST	Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.)	Z,ZK	4	3+1	Z	PS
01RMFB	Equations of Mathematical Physics B Václav Klika	Z,ZK	5	2P+2C		PS
11BSEM	Bachelor Seminar Radka Mika Havlíková, Ladislav Kalvoda Ladislav Kalvoda (Gar.)	Z	1	0P+2C	L	PS
12UPF1	Introduction to Computational Physics 1 Milan Kucha ík, Richard Liska Milan Kucha ík Milan Kucha ík (Gar.)	Z,ZK	2	1P+1C	Z	PS
02UFU	Introduction to Nuclear Fusion Jana Brotánková Jana Brotánková (Gar.)	Z,ZK	4	2+2	L	PS
12VKT	Vacuum Technology Richard Švejkar Vojt ch Petrá ek Vojt ch Petrá ek (Gar.)	KZ	4	2P+2L	Z	PS
12ZELD	Fundamentals of Electrodynamics Milan Ši or Ivan Richter Ivan Richter (Gar.)	Z,ZK	2	2+0	Z	PS
11ZFPL	Basic to Solid State Physics Eva Mihóková	KZ	2	26P+0C	Z	PS
11ZFP	Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Ladislav Kalvoda (Gar.)	ZK	3		Z	PS
12ZFP	Principles of Plasma Physics Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.)	Z,ZK	4	3+1	L	PS
02ZJFY	Fundamentals of Nuclear Physics Vladimír Wagner Vladimír Wagner (Gar.)	Z,ZK	5	3P+2C	Z	PS

Characteristics of the courses of this group of Study Plan: Code=BSPFIFPTF3 Name=BS P\_FIB FPTF 3rd year 02BPTF1 **Bachelor Thesis 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 02BPTF2 **Bachelor Thesis 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 17ENER The course provides students with basic information about energy industry as a branch of economy. It has five co-related parts: World energy, including basic concepts, energy history and global resources, transport and consumption. Energy industry of the Czech Republic, including history with an emphasis on recent development, including privatization, the current legal and institutional basis, a description of the main Czech energy industry components and the State Energy Strategy. Energy industry in the EU; the development and current state of EU energy integration, including important processes, documents and legal instruments. Institutions of energy systems describing the basic models of energy systems operation roles in general and specifically in the EU and the Czech Republic. Attention is also paid to energy modelling. Technical ground of energy production/transformation focused on electricity generation covering a basic technical description of fossil, nuclear, water, wind and solar power plants, including a discussion of their advantages and disadvantages and environmental impact, including phenomena such as greenhouse effect and climate change. Attention is also paid to energy networks. The conclusion of the course is devoted to discussing of the main topics of current energy industry and student presentations on the chosen topic. 02KF Quantum Physics State description, wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heisenberg uncertainty principle, quantization of angular momentum, solution of simple systems, hydrogen atom. Z,ZK 01PRST Probability and Statistics It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and continuing till the Kolmogorov definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit theorems are stated and proved. On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explained. 01RMFB Equations of Mathematical Physics B Z.ZK The subject of this course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral transformations, and solution of partial differential equations 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 defence 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 12UPF1 Introduction to Computational Physics 1 Numerical simulation and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program libraries for physics. Computer tools for scientific visualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance computing, parallel computing, software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis 02UFU Introduction to Nuclear Fusion Criteria for fusion ignition, fusion in stars, priniciples of plasma confinement in magnetic field (mirrors, pinches, stellarators, tokamaks), principles of inertial plasma confinement, alternative concepts, present fusion research facilities and project (including ITER), plasma heating and control, fusion technology, future fusion power plants 12VKT Vacuum Technology Rarefied gasses: basic concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surface; sorption, desorption; gas transport through solid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their properties:-Positive displacement pumps: Diaphragm, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorption pumps, Sublimation and NEG pumps, Ion getter pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Materials and vacuum components and seals. Practical exercises. 12ZELD Fundamentals of Electrodynamics Subject starts by derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory of relativity formulae are found for transformation of field vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By expansion into plane monochromatic waves methods of solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with absoption, with dispersion, and

non-isotropic. Finally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by appropriate examples.

11ZFPL Basic to Solid State Physics

ΚZ

2

Description of fundamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding interaction between atoms in solids, various types of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic thermal properties of crystals are derived. The periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in solids by means of electron energy bands explained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to systematically introduce and interpret a broad phenomenological basis of physical properties of crystalline solids

11ZFP Basic to Solid State Physics

ZK

3

Description of fundamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding interaction between atoms in solids, various types of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic thermal properties of crystals are derived. The periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in solids by means of electron energy bands explained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to systematically introduce and interpret a broad phenomenological basis of physical properties of crystalline solids

12ZFP Principles of Plasma Physics

Z.ZK

4

Basic physics of high temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, linear theory of waves in plasmas and propagation of electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and parametric instabilities are explained. It comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced.

02ZJFY Fundamentals of Nuclear Physics

Z,ZK

5

This scientific field presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domain, where much of our classical intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics.

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.

	g p.	•	•			
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> Jakub Hají ek (Gar.)	Z	1	0+2	٦	PV
00RET	Rhetoric Jana Ková ová Jana Ková ová Beatriz Vadillo Gonzalo (Gar.)	Z	1	0+2		PV
00UPRA	Introduction to Law Martin ech Jana Ková ová Martin ech (Gar.)	Z	1	0+2		PV
00UPSY	Introduction to Psychology  Jakub Haii ek Jana Ková ová Jakub Haii ek (Gar.)	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	the basics of micro- and macroeconomics.		
00ETV	Ethics of Science and Technology	Z	1
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	ne composition of	public speech
as well as to its nonver	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 Jana Ková ová Jana Ková ová (Gar.)	ZK	4		Z	PV
04XAPZK	English for Advanced Students Examination Slav na Brownová, Darren Copeland Jana Ková ová Darren Copeland (Gar.)	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 V ra Šlechtová (Gar.)	ZK	4		Z	PV
04XFZZK	French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.)	ZK	3		L	PV
04XNMZK	German for Intermediate Students Examination Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XNPZK	German for Advanced Students Examination Miloslava echová Miloslava echová (Gar.)	ZK	4		Z	PV
04XRMZK	Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRPZK	Russian for Advanced Students Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	4		Z	PV
04XRZZK	Russian for Beginners Examination Zhanna Isaeva Zhanna Isaeva Zhanna Isaeva (Gar.)	ZK	3		L	PV
04XSMZK	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 Beatriz Vadillo Gonzalo (Gar.)	ZK	3		L	PV

04XAMZK	English for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of	of two parts - written (100 m	in) and oral
20-30 min). The stu	ident is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three En	nglish courses.	,
04XAPZK	English for Advanced Students Examination	ZK	4
he 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 know	wledge obtaine
the three AP cou	rses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a t	opic from the student's field	d of study.
4XCESZZK	Czech for Foreigners Beginners - Examination	ZK	4
he course content	is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topic	s of the 04XCESZ1,2,3 cou	rses and can
nly be taken after	successful completion of all three courses. Detailed information is to be obtained from the teacher.		
4XCESMZK	Czech for Intermediate Students Examination	ZK	4
he course content	is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topic	s of the CESM1,2,3 courses	and can only
e taken after succe	essful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
4XCESPZK	Czech for Foreign Students - Advanced Examination	ZK	4
he course content	is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topic	s of the CESP1,2,3 courses	and can only
e taken after succe	essful completion of the 3 courses. Detailed information is to be obtained from the teacher.		
)4XFMZK	French for Intermediate Students Examination	ZK	4
he content is the e	examination as given by the study programme. The whole French programme is ended with an examination covering the	contents of FM1-FM3. The	examination
onsists of a writter	and oral part and is organized according to Examination Instructions, a document available on the web.		
)4XFPZK	French for Advanced Students Examination	ZK	4
he whole French p	program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or a	n oral part and is organized	according to
xamination Instruc	tions, a document available on the web. Assessment of the presentation is included into the examination grading.		
)4XFZZK	French for Beginners Examination	ZK	3
he content is the e	examination as given by the study plan. The course is terminated with an examination consisting of oral and written part	. The examination is ruled b	y the docume
nstruction for exam	ination. Its content covers the levels FZ1 - FZ5.		
4XNMZK	German for Intermediate Students Examination	ZK	4
he course content	is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an	examination consisting of tw	o parts - writt
nd oral, which cov	er the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NN	M3 assessment. More detail	ed information
s to be obtained fro	m the teacher.		
4XNPZK	German for Advanced Students Examination	ZK	4
he course content	is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an e	xamination consisting of two	parts - writte
nd oral, which cov	er the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP	3 ungraded assessment. M	ore detailed
	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 kno	wledge and skills a	acquired 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 instru	ctions by the teach	er.
04XRPZK	Russian for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kno	wledge and skills a	acquired in RP1
<ul> <li>RP3. Students are</li> </ul>	eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruc	tions by the teache	∍r.
04XRZZK	Russian for Beginners Examination	ZK	3
The course content	is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kno	wledge and skills a	acquired in RZ1
<ul> <li>RZ5. Students are</li> </ul>	eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instruc	tions by the teache	r.
04XSMZK	Spanish for Intermediate Students Examination	ZK	4
The course content	is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the	written part, studer	its will have
obtained non-grade	d assessment for course XSM3. Oral examination follows the written part.		
04XSPZK	Spanish for Advanced Students Examination	ZK	4
The course content	is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequi	site for admission	o oral part is
having passed the v	vritten test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan of the stu	ident.	
04XSZZK	Spanish for Beginners Examination	ZK	3
The course content	is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral	examination only i	f he/she has

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

The role of the block: V

passed the written examination test.

Code of the group: BSPFIFPTFV

Name of the group: BS P\_FIB FPTF Optional courses

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

Credits in the group: 0

Note on the group:

Zápis předmětu 15CH2 podmíněn získáním zápočtu z předmětu 15CH1. Předmět 02TEF2 lze absolvovat až po absolvování předmětů 02ELMA a 02TEF1. Zápis předmětu 12ZPLT je možný

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
02AMS	Atomic and Molecular Spectroscopy Svatopluk Civiš Svatopluk Civiš (Gar.)	Z,ZK	4	2+2	Z	V
02DEF1	History of Physics 1 Igor Jex Igor Jex (Gar.)	Z	2	2+0	Z	V
02DEF2	History of Physics 2 Igor Jex Igor Jex (Gar.)	Z	2	2+0	L	٧
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		٧
02FYS1	Physical Seminar 1 Filip Petrásek (Gar.)	Z	2	0+2	Z	V
04AKS	English Conversation Jana Ková ová Jana Ková ová (Gar.)	Z	1	0+2	L	٧
00MAM1	Essentials of High School Course 1 David Be	Z	1	0+1		٧
00MAM2	Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.)	Z	1	0+1		٧
12MOF	Molecular Physics Jan Proška, Martin Michl Martin Michl Jan Proška (Gar.)	ZK	2	2+0	L	٧
15CH1	General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z	3	2+1	Z	٧
15CH2	General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.)	Z,ZK	3	2+1	L	٧
18PRC1	Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.)	Z	4	2+2	Z	٧
18PRC2	Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský <b>Miroslav Virius</b> Miroslav Virius (Gar.)	KZ	4	2+2	L	V
02SMF	Seminar of Mathematical Physics Ladislav Hlavatý (Gar.)	Z	2	0+2	Z	٧

141 EIVI	Ji í Kunz <b>Ji í Kunz</b> Ji í Kunz (Gar.)	Z,ZN	0	4	5	\ \ \
TV-1	Physical Education	Z	1		Z	٧
ΓV-2	Physical Education	Z	1		L	V
-V-3	Physical education	Z	1	0+2	Z	V
·V-4	Physical education	Z	1	0+2	L	V
2TEF2	Theoretical Physics 2 Petr Novotný, Filip Petrásek Josef Schmidt Petr Novotný (Gar.)	Z,ZK	4	2+2	L	V
2TJNS	Transport Phenomena / Nonequilibrium Systems  Igor Jex Igor Jex (Gar.)	KZ	2	2+0	L	V
2UFN	Introduction to Photonics and Nanostructures Ivan Richter, Jan Proška, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.)	KZ	3	2P+1C	L	V
2UFEC	Introduction to Elementary Particle Physics  Jaroslav Biel ík, Marek Matas Jaroslav Biel ík (Gar.)	Z	2	2+0	Z	V
1UFP	Introduction to Solid State Physics Petr Kolenko Petr Kolenko (Gar.)	ZK	3		L	V
1UFPLN	Introduction to Solid State Physics Petr Kolenko	ZK	2	2+0	L	V
2UKP1	Introduction to Curves and Surfaces Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	L	V
2UKP2	Introduction to Curves and Surfaces 2 Ladislav Hlavatý Ladislav Hlavatý (Gar.)	Z	2	1P+1C	Z	V
2UMF	Introduction to Modern Physics  Jan Pšikal Jan Pšikal (Gar.)	Z	3	2+1	L	V
1UP1	Introduction to Probability 1 Jan Vybíral Jan Vybíral (Gar.)	Z,ZK	3	1P+1C		V
1UP2	Introduction to Probability 2 Milan Krbálek, Michaela Krbálková Michaela Krbálková Milan Krbálek (Gar.)	Z,ZK	3	1P+1C		V
2ZPLT	Basic Laser Technique Laboratory Václav Kube ek, Josef Blažej Josef Blažej Václav Kube ek (Gar.)	KZ	6	0+4	L	V
2ZPOP	Basic Optical Laboratory Alexandr Jan árek Alexandr Jan árek (Gar.)	KZ	6	0+4	L	V
8ZALG	Basics of Algorithmization  Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Jan Tomsa,  Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.)	Z,ZK	4	2+2	L	V
6ZDOZ1	Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.)	Z,ZK	4	2+2		V
6ZDOZ2	Fundamentals of Radiation Dosimetry 2 Tomáš Trojek	ZK	2	2+0	L	V
7ZEL	Basics of Electronics Martin Kropík Martin Kropík (Gar.)	KZ	3	2+2	Z	V
2ZEL1	Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	Z	V
2ZEL2	Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.)	Z,ZK	3	2+1	L	V
2ZM1	Foundations of Physical Measurements 1 Solangel Rojas Torres, Petr Chaloupka Petr Chaloupka (Gar.)	ZK	2	2P+0C	Z	V
2ZM2	Foundations of Physical Measurements 2 Petr Chaloupka Petr Chaloupka (Gar.)	KZ	4	0P+4L	L	V
6MEZB	Fundamentals of Ionizing-Radiation Metrology	Z,ZK	4	2+1	Z	V
2ZMDT	Measurement and Data Processing Josef Blažej, Ivan Procházka Josef Blažej Ivan Procházka (Gar.)	Z,ZK	2	1P+1C	Z	V
naracteristics of the	courses of this group of Study Plan: Code=BSPFIFPTFV Name	e=BS P_FIB	FPTF O	ptional co	urses	
	omic and Molecular Spectroscopy			Z	,ZK	4
	mic and molecular spectroscopy. story of Physics 1				7	2
· ·	story of Physics 1 system of sciences. The relationship of man and nature. Natural sciences in ancient Ori	ientand Greece,	Greek natu	ı	_	_
elenistic period, Archimed.	Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano E					-
experimental science. Ne					7	
	story of Physics 2 echanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, co	ornuscular and "	ave approc	1	Z and magnet	2 ism -
· · · · · · · · · · · · · · · · · · ·	ectrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its l	•		-	_	
=	ck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherfor	-	-			
	t of Nature and Universe of today.					
1DIM1 Die	ecrete Mathematics 1				7	2

ZK

Z,ZK

2

6

2+0

4

Z

Ζ

2

2

Special Theory of Relativity
David Be David Be (Gar.)

Engineering Mechanics

02STR

14TEM

01DIM1

01DIM2

Discrete Mathematics 1

Discrete Mathematics 2 The seminar is devoted to recurrence relations. It includes individual problem solving.

The seminar is devoted to elementary number theory and applications. It includes individual problem solving.

01DIMA3	Discrete Mathematics 3	ZK	2
	roblems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem so	lving of ones own	choice from the
given literature.			
02FYS1	Physical Seminar 1	Z	2
	to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical	=	e course of
-	ns are chosen, studied and presented by the students themselves, with the possibility to use PC and physical laboratory equi		
04AKS	English Conversation	Z	1
	the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun ious communication situations and will master their communication strategy. They will also practise their listening skills in orde		
	dent will be trained to express their ideas clearly and according to current English usage, and become a more confident speal		and participate
00MAM1	Essentials of High School Course 1	Z	1
	d to mathematical concepts and methods used in the introductory physics course.	_	•
00MAM2	Essentials of High School Math Course 2	Z	1
Review of basics of hig	1	_	·
12MOF	Molecular Physics	ZK	2
Basic ideas on physics	of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular structure determined to the control of the con	mination.	
15CH1	General Chemistry 1	Z	3
The most important cor	ncepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic	al use are illustra	ted by examples
solved in exercises.			
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. Usi		
	nciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles	are illustrated by	examples solved
in exercises.	Drogramming in Cut 4	7	4
18PRC1	Programming in C++ 1 nly the C programming language and non-object oriented features of the C++ language.	Z	4
18PRC2		KZ	4
	Programming in C++ 2 object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template		4
02SMF	Seminar of Mathematical Physics	Z	2
	ninar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics depart	_	_
1	fic activities that could become the topics of the student?s bachelor theses in the next year	mone will procent	ompio taono
02STR	Special Theory of Relativity	ZK	2
	nowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals.		_
14TEM	Engineering Mechanics	Z,ZK	6
	presents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strain		_
(elasticity, plasticity, frac	cture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TV-3	Physical education	Z	1
TV-4	Physical education	Z	1
02TEF2	Theoretical Physics 2	Z,ZK	4
Tensors and transforma	ations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics are	nd classical field t	heory in the
Minkowski space-time.	Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic waves in dielectromagnetic waves in dielec	tromagnetic radia	tion in the dipole
approximation.			
02TJNS	Transport Phenomena / Nonequilibrium Systems	KZ	2
	the students to the field of transport phenomena. The concept of a distribution function, Boltzmann equation, and H theorem are	e discussed. The g	general concepts
	plied specifically to problems of plasma physics.		
12UFN	Introduction to Photonics and Nanostructures	KZ	3
	ures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanopla	asmonics; optical	waveguides and
	nics; computer simulations; technological realization; student presentations	7	2
02UFEC	Introduction to Elementary Particle Physics  easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject is	Z are presented	2
11UFP	Introduction to Solid State Physics	ZK	3
	e fundamentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to		_
11UFPLN	Introduction to Solid State Physics	ZK	2
	ture is to introduce the undergraduate students to the study of the solid state physics.	210	_
02UKP1	Introduction to Curves and Surfaces	Z	2
	is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts		
1 -	plained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential p		
calculated by students.			
02UKP2	Introduction to Curves and Surfaces 2	Z	2
The lecture extends the	course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental	al form is introduc	ed, leading to
	n curvature. Finally, the usual concepts of Riemann geometry are introduced.		
12UMF	Introduction to Modern Physics	Z	3
	to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics cours	e. A part of the co	urse is delivered
in a computational labo		<b>-</b> -:	
01UP1	Introduction to Probability 1	Z,ZK	3
	te set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability and $\mathfrak q$ y, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and me	-	
	y, bayes theorem, medical diagnosis, Simpsons paradox 5.Kandom variable with discrete state space, its distribution and me ue 7 Probabilistic method in graph theory 8 Random algorithms. Morris algorithm and its variants	an value U.FIUDIE	and involving the

01UP2	Introduction to Probability 2	Z,ZK	3
1. One-dimensional con	tinuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction	of probability an	d connection to
measure theory. 4. Num	erical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics	. 6. Elementary m	nethods for point
estimations. 7. Generati	ng pseudorandom numbers from the selected distribution.		
12ZPLT	Basic Laser Technique Laboratory	KZ	6
Lasers, solid state Nd:Y	AG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier second harmor	nic, He-Ne glow d	lischarges, laser
diode, diode pumped N	d:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto-o	ptic modulators.	
12ZPOP	Basic Optical Laboratory	KZ	6
The practical laboratorie	s give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborated.	,	
18ZALG	Basics of Algorithmization	Z,ZK	4
This course is devoted to	o selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of th	, ,	lexity.
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
-	nd objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ioniza	<i>'</i>	nsfer and
	als of the effects of ionizing radiation.	3,	
16ZDOZ2	Fundamentals of Radiation Dosimetry 2	ZK	2
	cal effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principle		_
_	tion of activity and neutron source emission. Measurements of absorbed dose and exposure.	70 4114 1110 1110 110 10	
17ZEL	Basics of Electronics	KZ	3
	nformation of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and	!	-
•	al with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor compo		
	ntinue with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/di		
completed with electron		gital control to a	200141.00 4.0
12ZEL1	Basic Electronics 1	Z,ZK	3
	imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circ	, ,	-
	c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effec	=	
12ZEL2	Basic Electronics 2	Z.ZK	3
	Dasic Electroffics 2 with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic t	, ,	-
02ZM1	Foundations of Physical Measurements 1	ZK	2
•	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,		
•	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired days in the control of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired days in the control of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired days in the control of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired days in the control of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired days in the control of the lecture is the lecture is the control of the lecture is	ata on a PC. Stud	lents learn the
basic habits of work in a			
02ZM2	Foundations of Physical Measurements 2	KZ	4
•	for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however,		
-	al of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	ata on a PC. Stud	lents learn the
basic habits of work in a	a physics lab.		
16MEZB	Fundamentals of Ionizing-Radiation Metrology	Z,ZK	4
	the basic objectives and content of ionizing radiation metrology. It deals with the interpretation of radiation quantities and unit	٠.	
•	ental foundations of metrology, the determination of basic parameters of radiation. Lectures are supplemented with basic sum	mary of relevant	legislation and
regulations.			
12ZMDT	Measurement and Data Processing	Z,ZK	2
Basic knowledge for the	measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propetib	s, data fitting, ser	paration of the

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

Credits in the group: 0 Note on the group:

signal from the noise.

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) **English for Intermediate Students M1** 04XAM1 Ζ 0+2Ζ Jana Ková ová Jana Ková ová (Gar.) **English for Intermediate Students M2** Ζ 04XAM2 0+2 L Jana Ková ová Jana Ková ová (Gar.) **English for Intermediate Students M3** 04XAM3 Ζ Ζ 0+2Jana Ková ová Jana Ková ová (Gar.) **English for Advanced Students P1** 04XAP1 Ζ Ζ 2 0+2 V Jana Ková ová Darren Copeland (Gar.) **English for Advanced Students P2** 04XAP2 Ζ 2 0+2 L Jana Ková ová Darren Copeland (Gar.) **English for Advanced Students P3** 04XAP3 Ζ 2 0+2 Ζ V Jana Ková ová Darren Copeland (Gar.) **Czech for Foreigners - Beginners 1** Ζ 2 Ζ 04XCESZ1 0+2٧ Jana Ková ová Jana Ková ová (Gar.) **Czech for Foreigners - Beginners 2** Ζ 2 L 04XCESZ2 0+2 ٧ Jana Ková ová Jana Ková ová (Gar.)

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 (Car.)	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 (Car.)	Z	2	0+2	Z	V
04XFM1	French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFM2	French for Intermediate Students M2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFM3	French for Intermediate Students M3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP1	French for Advanced Students P1  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFP2	French for Advanced Students P2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	L	V
04XFP3	French for Advanded Students P3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+2	Z	V
04XFZ1	French for Beginners Z1  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ2	French for Beginners Z2  V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ3	French for Beginners Z3 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XFZ4	French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	Z	V
04XFZ5	French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.)	Z	2	0+4	L	V
04XNM2	German for Intermediate Students M2  Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNM1	German for Intermediate Students M1 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNM3	German for Intermediate Students M3 Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP1	German for Advanced Students P1  Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XNP2	German for Advanced Students P2  Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	L	V
04XNP3	German for Advanced Students P3  Miloslava echová Miloslava echová (Gar.)	Z	2	0+2	Z	V
04XRM1	Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRM2	Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRM3	Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP1	Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRP2	Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	L	V
04XRP3	Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+2	Z	V
04XRZ1	Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ2	Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ3	Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XRZ4	Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	Z	V
04XRZ5	Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)	Z	2	0+4	L	V
04XSM1	Spanish for Intermediate Students M1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSM2	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSM3	Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V

04XSP1	0					1
	Spanish for Advanced Students P1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSP2	Spanish for Advanced Students P2 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	L	V
04XSP3	Spanish for Advanced Students P3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+2	Z	V
04XSZ1	Spanish for Beginners Z1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ2	Spanish for Beginners Students Z2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ3	Spanish for Beginners Z3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
04XSZ4	Spanish for Beginners Z4  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	Z	V
04XSZ5	Spanish for Beginners Z5  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)	Z	2	0+4	L	V
Characteristics of th	e courses of this group of Study Plan: Code=BSPJAZYKYZAP I	Name=BS P	iazvky za	nD		
		tame=B0 i	Juzyky zo	·P	7	
04XAM1   Ei	nglish for Intermediate Students M1				Z	2
The course is designed for	students who have successfully completed the full secondary school English language (	course at least at	the A2 leve	I of the Comr	mon Europe	an Framework
of Reference for Language	s (CEFR). It provides an introduction into English for Specific and Academic Purposes (	ESP ΕΔΡ) i ρ i	nto fundame	entals of voca	abulary and	style typical of
professional oral and writte	n communication situations. Thus it covers topics related to the student's life and needs	as well as topics	s or subtech	nıcaı ınterest	. Attention is	s also paid to
extending the knowledge of	f grammar issues used in EAP.					
<del>_</del>	<u> </u>			1	7	
04XAM2   Ei	nglish for Intermediate Students M2				Z	2
The AM2 course expects th	e student to have completed the AM1 course. It develops their skills for work with subte	chnical texts, for	using also n	nore on spec	ific gramma	r. functions.
•	·		•	•	•	
· · · · · · · · · · · · · · · · · · ·	SP and EAP (e.g., definition, existence and classification of phenomena, object descripting	ons). Part of the	course is als	o guidea writ	ing. II neces	sary, gramma
evision is included.						
) 4) / A N 40	a diale fan latanna diata Otodanta MO				7	
04XAM3   Ei	nglish for Intermediate Students M3				Z	2
he course develops the sk	ills that enable students to cope with features typical of professional style. Increasing atte	ntion is paid to de	evelopina su	btechnical vo	cabulary an	d independen
•		•			•	•
• .	nal texts. Great emphasis is placed on distinguishing different levels of formal and inform					
equivalents. The course als	o includes studying abstracts and rules for writing them as well as basic rules for prepa	ring and giving a	short prese	ntation on a o	chosen topic	c related to the
student's field.						
04XAP1 ∣Ei	nglish for Advanced Students P1				Z	2
	students who have successfully completed the full secondary school English language	course (at least	ho D1 lovol	of the Comm	on Europoo	n Framowark
-				C. GIO COITIII		
of Reference for Language:	s - CEFR). It provides an introduction into English for Specific and Academic Purposes	(ESP, EAP), i.e.,		damentals of		
			into the fund		vocabulary,	functions,
grammar, and style typical	of professional oral and written communication situations (fundamentals of terms in mat	hematics and ph	into the fund lysics, defini	tions, graph	vocabulary, descriptions	functions, , etc). It also
grammar, and style typical		hematics and ph	into the fund lysics, defini	tions, graph	vocabulary, descriptions	functions, , etc). It also
grammar, and style typical covers professional oral and	of professional oral and written communication situations (fundamentals of terms in mat	hematics and ph	into the fund lysics, defini	tions, graph	vocabulary, descriptions	functions, , etc). It also
grammar, and style typical ocovers professional oral and polite request). If necessary	of professional oral and written communication situations (fundamentals of terms in mat I written communication on topics related to the undergraduate's life and needs. It develop ,, revision of selected grammar topics is included.	hematics and ph	into the fund lysics, defini	tions, graph ovriting	vocabulary, descriptions g a CV, letter	functions, s, etc). It also of application
grammar, and style typical ocovers professional oral and polite request). If necessary	of professional oral and written communication situations (fundamentals of terms in mat I written communication on topics related to the undergraduate's life and needs. It develop	hematics and ph	into the fund lysics, defini	tions, graph ovriting	vocabulary, descriptions	functions, , etc). It also
grammar, and style typical covers professional oral and polite request). If necessary 04XAP2	of professional oral and written communication situations (fundamentals of terms in mat I written communication on topics related to the undergraduate's life and needs. It develop ,, revision of selected grammar topics is included.	hematics and phos skills for free po	into the fund hysics, defini rofessional w	tions, graph ovriting	vocabulary, descriptions g a CV, letter	functions, s, etc). It also of application
grammar, and style typical of covers professional oral and coolite request). If necessary 04XAP2 EI The AP2 course is based o	of professional oral and written communication situations (fundamentals of terms in man d written communication on topics related to the undergraduate's life and needs. It develop y, revision of selected grammar topics is included. nglish for Advanced Students P2 n AP1, thus extending the student's skills for working with subtechnical texts, and even	hematics and phos skills for free power with professiona	into the fund sysics, definition rofessional w	tions, graph oviiting (writing	vocabulary, descriptions g a CV, letter Z es of science	functions, s, etc). It also of application 2 e. According to
grammar, and style typical of covers professional oral and coolite request). If necessary 04XAP2 Eight AP2 course is based of the students' needs it conciderations.	of professional oral and written communication situations (fundamentals of terms in mand written communication on topics related to the undergraduate's life and needs. It develops, revision of selected grammar topics is included.  Inglish for Advanced Students P2  In AP1, thus extending the student's skills for working with subtechnical texts, and even entrates on chosen grammar topics, but mainly intends to develop understanding of syr	hematics and phos skills for free power with professional tractic structures	into the fund hysics, definition rofessional was a literature of the I texts of characteristics of the and typical	tions, graph overiting (writing over the control of	vocabulary, descriptions g a CV, letter  Z es of science actions (e.g.,	functions, s, etc). It also of application 2 e. According to s, various types
grammar, and style typical of covers professional oral and politic request). If necessary D4XAP2 EITHE AP2 course is based of the students' needs it concord descriptions, and, if possions are professional and the students of descriptions, and, if possions are professional and the students of the stude	of professional oral and written communication situations (fundamentals of terms in math written communication on topics related to the undergraduate's life and needs. It developed, revision of selected grammar topics is included.  Inglish for Advanced Students P2  In AP1, thus extending the student's skills for working with subtechnical texts, and even entrates on chosen grammar topics, but mainly intends to develop understanding of syrtible, a case study). Increasing emphasis is placed on the undergraduate's independent	hematics and phos skills for free powers with professional stactic structures work with and re-	into the fund nysics, definitoriessional was I texts of choosing and typical eading of line	tions, graph overting (writing over the control of	vocabulary, descriptions g a CV, letter  Z es of science actions (e.g., ore demand	functions, s, etc). It also of application 2 e. According to , various types ing materials.
grammar, and style typical of covers professional oral and politic request). If necessary D4XAP2 EITHE AP2 course is based of the students' needs it concord descriptions, and, if possions are professional and the students of descriptions, and, if possions are professional and the students of the stude	of professional oral and written communication situations (fundamentals of terms in math written communication on topics related to the undergraduate's life and needs. It developed, revision of selected grammar topics is included.  Inglish for Advanced Students P2  In AP1, thus extending the student's skills for working with subtechnical texts, and even entrates on chosen grammar topics, but mainly intends to develop understanding of syrtible, a case study). Increasing emphasis is placed on the undergraduate's independent	hematics and phos skills for free powers with professional stactic structures work with and re-	into the fund nysics, definitoriessional was I texts of choosing and typical eading of line	tions, graph overting (writing over the control of	vocabulary, descriptions g a CV, letter  Z es of science actions (e.g., ore demand	functions, s, etc). It also of application 2 e. According to , various types ing materials.
grammar, and style typical of covers professional oral and coolite request). If necessary O4XAP2 EITHE AP2 course is based of the students' needs it concord descriptions, and, if possible course extends the stu	of professional oral and written communication situations (fundamentals of terms in math written communication on topics related to the undergraduate's life and needs. It developed, revision of selected grammar topics is included.  Inglish for Advanced Students P2  In AP1, thus extending the student's skills for working with subtechnical texts, and even entrates on chosen grammar topics, but mainly intends to develop understanding of syrible, a case study). Increasing emphasis is placed on the undergraduate's independent dent's subtechnical vocabulary, and includes fundamental notions of chosen branches of	hematics and phos skills for free powers with professional stactic structures work with and re-	into the fund nysics, definitoriessional was I texts of choosing and typical eading of line	tions, graph overting (writing over the control of	vocabulary, descriptions g a CV, letter  Z es of science actions (e.g., ore demand	functions, s, etc). It also of application 2 e. According to , various types ing materials.
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04XCESP1 Czech for Foreign Students - Advanced 1 The prerequisite of the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common European Framework of Reference. 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 functional style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Student Life. Written practice includes communication with teachers and faculty administrators. 04XCESP2 Czech for Foreigners - Advanced 2 7 2 This course extends the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and specialist texts placing greater emphasis on individual work. 04XCESP3 Ζ 2 Czech for Foreigners - Advanced 3 The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, and, finally, presentation of the student's project. Writing skills necessary for professional communication are trained. 04XFM1 French for Intermediate Students M1 French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Students will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transmit general and technical information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systemizes and expands language skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal statement, request, answer to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work based on these texts. 04XFM2 French for Intermediate Students M2 Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science texts, features typical for technical and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science and technology, French scientists, artists and architects. Description of an object, device, shapes, dimensions, material. French for Intermediate Students M3 The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subordinate and infinitive clauses, participle structures, compound tenses). Text summary. -Students prepare a written paper which will be delivered in form of an oral presentation in-class. The paper is linked to the field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work compiled from French articles and one's own knowledge/experience. -Longer monologues on topics /situations set for the examination are prepared. Text structure, cohesion and coherence. French for Advanced Students P1 FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Students will be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general 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 repeated and expanded: subjonctif, passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal statement, request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of specialization: mathematics, internet, physics, chemistry. 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 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on given topics. Features typical of technical and scientific communication are stressed (passive voice, nominalization, word formation). French for Advanded Students P3 Ζ The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in engineering environment. Special skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covers a technical /applied science topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. 2 04XF71 French for Beginners Z1 French for beginners 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 socializing and in professional life The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to communicate at elementary level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdová, French for beginners (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, personal information, asking and giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation and grammar. 2 04XFZ2 French for Beginners Z2 The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the textbook: Pravda - Pravdová: French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered: How does the machine work? A few expressions concerning the study. Name of University and Faculty. 04XFZ3 French for Beginners Z3 The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravdová: French for Beginners. Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for information and loud as part of pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. French for Beginners Z4 04XFZ4 Ζ 2 The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The contents is roughly covered with lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture notes French for Engineering Students of FJFI. The course covers generals and specific topics; health- illness, sport, free time, environment, study, travelling in France, Paris, shopping, weather, university in our country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. French for Beginners Z5 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They present it orally in the class. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. Topics: on physics from lecture notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate clauses, typical conjunctions, subjunctive clauses, gerund, passive. 04XNM2 German for Intermediate Students M2 The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between technology and society, the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and car technology etc. Students practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses).

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
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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
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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 use	Interpretation of 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 on independent 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). By its 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 the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak a stress, understand its contents and summarize it.  Russian for Beginners Z2  If the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will	Z verb aspects, spe  Z using, translation). The courses develor written interpreta accurately and wi  Z sian. Thus it beginking). Students will  Z ubtechnical texts.	2 cult grammar  2 crific syntactic  2 The RP1 - RP3 clop and expand ation). Students th confidence on  2 s with mastering I be able to read  2 Students will be
04XRP1 The entrance requirement structures, understanding 04XRP2 The course is based on structures). Stress is purely 04XRP3 The course is based on courses require good puthese skills. Further study develop 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 grammate.	Interpretation of 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 paraphratevious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). They is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and correct communication in professional situations. They will be able to both speak write the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rustor both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak at stress, understand its contents and summarize it.  Russian for Beginners Z2  If the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short setting 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.	Z verb aspects, spe  Z using, translation). The courses development of the courses develop their	2 ceific syntactic  2 The RP1 - RP3 elop and expand ation). Students th confidence on  2 s with mastering I be able to read  2 Students will be r vocabulary and
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04XSM1	Spanish for Intermediate Students M1	Z	2
-	ned for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-si	emester course deve	lops standard
vocabulary and pay	attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, n	egative form of the in	nperative, and
subjunctive), to writt	en and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tex	ts or listening to them	٦.
04XSM2	Spanish for Intermediate Students M3	Z	2
The course develop	s the students´ knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish	for specific purposes	in order to be
able to work with sp	ecialized texts on the Internet.		
04XSM3	Spanish for Intermediate Students M3	Z	2
The course books a	e supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of a	cademic style. They v	vill be competen
enough to use the Ir	iternet in Spanish and search for information of their specialization or field of interest. Students will use the information to wri	ite short articles and	summaries. The
final 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 concentrate	s on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written commun	ication. Course prere	quisites: level B2
of CEFR.			
04XSP2	Spanish for Advanced Students P2	Z	2
Course XSP2 is the	second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar an	d syntax and focuses	on independer
written communicati	on.		
04XSP3	Spanish for Advanced Students P3	Z	2
Course XSP3 is the	final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. I	t is focused on writter	n communicatio
based on what stude	ents will need in their career.		
04XSZ1	Spanish for Beginners Z1	Z	2
Course XSZ1 is the	first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and f	undamental gramma	r structures and
will be able to comm	unicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Sp	anish and will develo	p it.
04XSZ2	Spanish for Beginners Students Z2	Z	2
Course XSZ2 is bas	ed on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structur	res and lexis will be c	hosen so as to
enable them to unde	erstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking coun	tries and others such	as the Czech
Republic. Realia of	Spanish-speaking countries are also included.		
04XSZ3	Spanish for Beginners Z3	Z	2
This course builds u	pon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It i	ncludes an introducti	on to the realia
and cultural context	of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, inc	luding the pretérito p	erfecto, pretérit
indefinido, pretérito	mperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general t	opics. Students are p	repared for this
	ding and listening activities.		
• •	and and note in great the second seco		
through targeted rea	Spanish for Beginners Z4	Z	2
through targeted rea 04XSZ4 The course is based	Spanish for Beginners Z4 on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the S	ρanish speaking coυ	ıntries, mainly o
through targeted rea 04XSZ4 The course is based Spain. It pays attent	Spanish for Beginners Z4 on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Social further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form	ρanish speaking coυ	ıntries, mainly o
through targeted rea 04XSZ4 The course is based Spain. It pays attent	Spanish for Beginners Z4 on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the S	ρanish speaking coυ	ıntries, mainly o
through targeted rea 04XSZ4 The course is based Spain. It pays attent	Spanish for Beginners Z4 on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Social further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form	ρanish speaking coυ	ıntries, mainly c
through targeted rea 04XSZ4 The course is based Spain. It pays attent to written and oral of 04XSZ5	Spanish for Beginners Z4 on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the son to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form purpose on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.	Spanish speaking cou of the imperative, an	untries, mainly on subjunctive),

## List of courses of this pass:

Code	Name of the course	Completion	Credits
00EKOT	Economy in Technology	Z	1
	The course introduces the basics of micro- and macroeconomics.	'	'
00ETV	Ethics of Science and Technology	Z	1
00MAM1	Essentials of High School Course 1	Z	1
	Students are introduced to mathematical concepts and methods used in the introductory physics course.		'
00MAM2	Essentials of High School Math Course 2	Z	1
	Review of basics of high school mathematics.	,	
00PT	Preparatory Week	Z	2
00RET	Rhetoric	Z	1
The course is focu	sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the	composition of pul	olic speech
as well as to its	nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an	n integral part of the	e course.
00UPRA	Introduction to Law	Z	1
00UPSY	Introduction to Psychology	Z	1
01ANB3	Calculus B 3	Z,ZK	8
1 Functional co.	visioned and aprice convergence range criteria of uniform convergence continuity limit differentiation and interretion of functional		o Corioo

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

Taylor series, elementary terms of vector analysis, Jacobi matrix. 6. Functions defined implicitly by one or several equations.

01ANB4	Calculus B 4	Z,ZK	6
	o et funkcí více prom nných a funkcionálních vektor . [2] Funkce zadané implicitn . [3] Taylorovy ady funkce více prom nných. [4]	-	
	kartézské soustavy sou adnic. [5] Lokální, vázané a globální extrémy funkce více prom nných. [6] Základy teorie míry a obrys konst	_	
Integrální po et f	unkce více prom nných - Riemann v a Lebesgue v integrál, základní vlastnosti, Fubiniova v ta, v ta o substituci. Leviho a Lebesgu	eova v ta. Limita,	spojitost a
	derivace integrálu podle parametru. [8] Integrály po k ivkách a plochách. Integrální v ty.		
01DIM1	Discrete Mathematics 1	Z	2
	The seminar is devoted to elementary number theory and applications. It includes individual problem solving.		'
01DIM2	Discrete Mathematics 2	Z	2
	The seminar is devoted to recurrence relations. It includes individual problem solving.	1	'
01DIMA3	Discrete Mathematics 3	ZK	2
	problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solving	l .	1
Otagonio got to mit	given literature.	.g c. cc. c c	
01LAL	Linear Algebra 1	Z	2
-	Linear Algebra     Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of	_	
1. Vector space. 2	theorem.	iiileai iiiappiiigs. 7.	Tiobernas
041.41.2	<del>,</del>	Z,ZK	
01LAL2	Linear Algebra 2		5 Cooler
	se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian ar		
	gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse mat		
of determinants.	3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonali	ty. Calculation of o	rtnogonai
041.41.7	complements. 6. Geometry exercises and examples. 7. Adjoint operators.	714	
01LALZ	Linear Algebra 1, exam	ZK	2
01MAN	Calculus 1	Z	4
	Basic calculus (real analysis, functions of one real variable, differential calculus).		
01MAN2	Calculus 2	Z,ZK	8
	i differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute a		vergence 3.
Real and complex	power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integ	rals: primitives, def	inite integral
	(Riemann definition), techniques of integration and application of integrals, Generalized Riemann integral	•	
01MANZ	Calculus 1, exam	ZK	4
01PRST	Probability and Statistics	Z,ZK	4
	probability and Statistics  e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and	,	
	ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the	_	- 1
	e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testi		and proved.
01RMFB	Equations of Mathematical Physics B	Z,ZK	5
The subject of this	course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral t	ransformations, an	a solution of
	partial differential equations.		
01UP1	Introduction to Probability 1	Z,ZK	3
	with finite set of possible results, classical probability, independent random events 2.Probability and combinatorics 3.Probability 3.Pr	-	
4.Conditional proba	ability, Bayes theorem, medical diagnosis, Simpsons paradox 5.Random variable with discrete state space, its distribution and mean	value 6.Problems i	involving the
	calculation of mean value 7.Probabilistic method in graph theory 8.Random algorithms, Morris algorithm and its variants	T	1
01UP2	Introduction to Probability 2	Z,ZK	3
	al continuous random variable and its statistical description. 2. Distribution function and probability density. 3. Axiomatic introduction of		
measure theory. 4.	Numerical characteristics of continuous random variables. 5. Selected variants of continuous distributions and their characteristics. 6	. Elementary meth	ods for point
	estimations. 7. Generating pseudorandom numbers from the selected distribution.		,
02AMS	Atomic and Molecular Spectroscopy	Z,ZK	4
	The lecture is devoted to atomic and molecular spectroscopy.		
02BPTF1	Bachelor Thesis 1	Z	5
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 pro	ject supervisor dur	ing common
	regular meetings and discussions.		
02BPTF2	Bachelor Thesis 2	Z	10
	l ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the pro	1	
, ,	regular meetings and discussions.	,	ŭ
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 phile	1	
	Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo,		
riolofilotio poriou,	as experimental science. Newton and his work.	raygono. The biran	i oi pilyoloo
02DEF2	History of Physics 2	Z	2
	inistory or Frigicis 2 If classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. I	I	
	vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.		
and relativistic p	shysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear e standard model. The concept of Nature and Universe of today.	nergy, Elementary	particles,
0051144		7.71/	
02ELMA	Electricity and Magnetism	Z,ZK	6
	oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, con-		
<u>-</u>	Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves,		
02EXF	Experimental Physics	ZK	2
The goal of this sub	oject is to introduce the students the principles of physics measurements, their techniques, methods and instruments that are used for	r such measureme	ents, and the
	analysis of measured data.		
02FYS1	Physical Seminar 1	Z	2
The cominer is a			
rne seminar is c	devoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physic	s presented in the	course of

02KF	Quantum Physics	Z,ZK	3
	n, wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise		_
State description	quantization of angular momentum, solution of simple systems, hydrogen atom.	riberg differ tairity	principie,
02MECH	Mechanics	Z	4
	INFECTIONICS hysics, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, so	_	
		• .	
one-umensionari	motion, 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.	particle collisions.	IVIECHANICS
OOMEOUZ		71/	
02MECHZ	Mechanics - Examination	ZK	2
	The content of the subject is the examination according to the plan of studies.		
02PRA1	Experimental Laboratory 1	KZ	6
	d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear En		
-	ts interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the		
of the measureme	nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation	on of results. At the	same time
	practically extendthe knowledge gained in lectures on physics.		
02PRA2	Experimental Laboratory 2	KZ	6
Lecture is intende	d especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear En	ngineering). But it o	can be also
attended by studen	its interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with the	eliterature), the imp	lementation
of the measureme	nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation	on of results. At the	same time
	practically extendthe knowledge gained in lectures on physics.		
02SFP	Seminar in Plasma Physics	Z	2
	First contact of students with applications of plasma physics.	_ '	
02SMF	Seminar of Mathematical Physics	Z	2
	he seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm		
The purpose of t	concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year	ent will present sin	iipie tasks
000TD		714	
02STR	Special Theory of Relativity	ZK	2
	Students extend their knowledge of classical, non-quantum mechanics of the special theory of relativity fundamentals.		
02TEF1	Theoretical Physics 1	Z,ZK	4
The course is an in	troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms	as well as diferent	approaches
•	dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary	•	•
problem, the mot	ion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles	of mechanics. The	subject is
	the first part of the course of classical theoretical physics (02TEF1, 02TEF2).		
02TEF2	Theoretical Physics 2	Z,ZK	4
Tensors and trar	sformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and	d classical field the	ory in the
Minkowski space-t	ime. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electron	nagnetic radiation i	n the dipole
	approximation.		
02TER	Heat and Molecular Physics	Z.ZK	4
_	n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynami	l ' l	nd real das
	ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dist		_
02TJNS	Transport Phenomena / Nonequilibrium Systems	KZ	2
	ices the students to the field of transport phenomena. The concept of a distribution function, Boltzmann equation, and H theorem are dis		<del>-</del>
The course introdu	and approaches are applied specifically to problems of plasma physics.	cusseu. The gener	ai concepts
007054		7.71/	
02TSFA	Thermodynamics and Statistical Physics	Z,ZK	. 4
	modynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chateli		
Basics of many bo	dy descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical	ensemble, Fermi ç	gas, models
	of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena.		
02UFEC	Introduction to Elementary Particle Physics	Z	2
The cour	se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su	ibject are presente	d.
02UFU	Introduction to Nuclear Fusion	Z,ZK	4
Criteria for fusio	n ignition, fusion in stars, priniciples of plasma confinement in magnetic field (mirrors, pinches, stellarators, tokamaks), principles of ir	nertial plasma conf	inement,
alterna	ative concepts, present fusion research facilities and project (including ITER), plasma heating and control, fusion technology, future fu	sion power plants	
02UKP1	Introduction to Curves and Surfaces	Z	2
The goal of the I	ecture is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts for	or the curves are ir	
	re explained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential part		
	calculated by students.		•
02UKP2	Introduction to Curves and Surfaces 2	Z	2
	introduction to Solves and Surfaces 2.  Ids the course 02UKP1. The properties of the first fundamental form are briefly summarized. The concept of the second fundamental form are briefly summarized.	_	
THE REGISTER CALCU	the mean and Gaussian curvature. Finally, the usual concepts of Riemann geometry are introduced.	om io introducció,	loading to
OOLIDD		V7	2
02UPP	Laboratory of Plasma Diagnostics  Getting familiar with basic measurements of different processes in fusion devices. Getting through basic theory, and data processes in fusion devices.	KZ	3
201/045			
02VOAF	Waves, Optics and Atomic Physics	Z,ZK	6
	a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza		
coherence. Geo	metrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro	glie waves,the Sch	rodinger
	equation, stationary states and spectra of finite systems.		
02ZJFY	Fundamentals of Nuclear Physics	Z,ZK	5
This scientific field	presents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic domain	n, where much of c	our classical
	intuition regarding the behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic pl	nysics.	
02ZM1	Foundations of Physical Measurements 1	ZK	2
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it is		-4
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), nowever, it c	an be attended by	students of
other branches. T	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	-	
other branches. T		-	

02ZM2			
	Foundations of Physical Measurements 2	KZ	4
	gned for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, it c		-
other branches. T	he goal of the lecture is to introduce the basics of physical measurements, the methods of processing and evaluation of acquired data	on a PC. Stude	nts learn the
	basic habits of work in a physics lab.		
04AKS	English Conversation	Z	1
The course will de	evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communica	tion. The studen	t will develop
heir vocabulary fo	or various communication situations and will master their communication strategy. They will also practise their listening skills in order to	better follow ar	nd participate
in d	liscussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more con	fident speaker.	
04XAM1	English for Intermediate Students M1	Z	2
	gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C	ommon Europea	1
	anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of v	•	
orofessional oral	and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical inte	erest. Attention is	s also paid to
	extending the knowledge of grammar issues used in EAP.		
04XAM2	English for Intermediate Students M2	Z	2
	expects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on	_	I
	pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided		
na ioxidal itomo ty	revision is included.	Witting: II 1100000	sary, gramme
0484142		Z	2
04XAM3	English for Intermediate Students M3	_	I
	ps the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical	=	-
_	f professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication a		
quivalents. The co	purse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation or	n a cnosen topic	related to the
	student's field.		
04XAMZK	English for Intermediate Students Examination	ZK	4
	ent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts		in) and oral
	30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three E		
04XAP1	English for Advanced Students P1	Z	2
he course is des	igned for students who have successfully completed the full secondary school English language course (at least the B1 level of the Co	mmon Europea	n Frameworl
of Reference for	Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament	als of vocabular	y, functions,
rammar, and sty	le typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gr	aph descriptions	s, etc). It also
vers professiona	l oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (wr	iting a CV, letter	of applicatio
•	polite request). If necessary, revision of selected grammar topics is included.	_	
04XAP2	English for Advanced Students P2	Z	2
-	based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen bran	_	_
		cites of science	. According i
		functions (o.a.	various type
	Is it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical		
of descriptions, an	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall	y more demand	ing materials
of descriptions, an	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing	y more demand	ing materials
of descriptions, ar he course extend	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.	y more demanding including the	ing materials sentence an
of descriptions, ar the course extend 04XAP3	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3	y more demanding including the	ing materials sentence and
of descriptions, ar the course extend 04XAP3 the AP3 course is	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3 based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It income	y more demanding including the	sentence and 2 ral and writte
of descriptions, and the course extend 04XAP3 The AP3 course is communication skew.	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing	y more demanding including the  Z cludes training of an abstract) and	ing materials sentence an 2 ral and writte d, if possible,
of descriptions, and the course extend 04XAP3 The AP3 course is communication skeep.	nd, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.	y more demanding including the  Z cludes training of an abstract) and	ing materials sentence an 2 ral and writte d, if possible,
of descriptions, and the course extend 04XAP3  The AP3 course is communication skales also preparing a	Ind, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.	y more demanding including the  Z cludes training of an abstract) and age both in oral	and written and written and written and written and written and written
of descriptions, are the course extended of AXAP3  he AP3 course is communication skealso preparing a	Ind, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes any functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.  English for Advanced Students Examination	y more demanding including the  Z cludes training or an abstract) and age both in oral	ang materials sentence an 2 ral and writte d, if possible I and written 4
of descriptions, and the course extended of AXAP3 the AP3 course is communication skalso preparing a	Ind, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.	y more demanding including the  Z cludes training or an abstract) and age both in oral	ang materials sentence an 2 ral and writted, if possible I and written 4
of descriptions, are the course extended of AXAP3 the AP3 course is communication skalso preparing a ot AXAPZK the course contents.	Ind, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes any functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language.  English for Advanced Students Examination	y more demanding including the  Z cludes training or an abstract) and age both in oral  ZK pply their knowle	and written day and written day and written day and written deduced by the deduce
of descriptions, are the course extended outside AP3 course is sommunication skalso preparing a outside Course content in the three AP	Ind, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguisticall is the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing paragraph structure, linking, cohesion and coherence in texts.  English for Advanced Students P3  based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal languation.  English for Advanced Students Examination  t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a 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 is supposed to demonstrate mastering the AP3 syllabus and the ability to a 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 is supposed to the student is sup	y more demanding including the  Z cludes training or an abstract) and age both in oral  ZK pply their knowle	and written day and written day and written day and written deduced by the deduce
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04XCESZ1 Czech for Foreigners - Beginners 1	Z	2
The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g	•	- 1
acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication	in the most commor	n everyday
situations. The course covers roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo ilová.  O4XCESZ2  Czech for Foreigners - Beginners 2	Z	2
04XCESZ2   Czech for Foreigners - Beginners 2 The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and cor		
basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.	nagation byotom an	a praotioo
04XCESZ3 Czech for Foreigners - Beginners 3	Z	2
The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on	l	
fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce	simple texts and the	ey practise
frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly	lessons 5-7 in ešt	ina expres
1.	71/	
04XCESZZK Czech for Foreigners Beginners - 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 04X	ZK CES71 2 3 courses	4 and can
only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.	02021,2,0 0001303	and can
04XFM1 French for Intermediate Students M1	Z	2
French - intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v	vritten and oral form	. Students
will be able to communicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra	<del>-</del>	
information and to solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on and further develops linguistic competence acquired at secondary school. It revises, systematically in the course builds on an additional control of the course builds on a secondary school of the course builds of the course builds on a secondary school of the course builds on a secondary school of the course builds on a secondary school of the course builds on the course builds of the course	•	
skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor to an advert, 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
Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text	ts, features typical fo	
and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scientific		
scientists, artists and architects. Description of an object, device, shapes, dimensions, material.		
04XFM3 French for Intermediate Students M3	Z	2
The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub		
participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-classifield of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work		
and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi	=	icii ai licies
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 contents of	l	amination
consists of a written and oral part and is organized according to Examination Instructions, a document available on the web	).	
04XFP1 French for Advanced Students P1	Z	2
FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both written and the semination and in condenses to improve and further develop communication in the French language in both written and the semination of the semi		
be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general to solve problems. FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repeated to solve problems.		
passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional le	· ·	
request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of	· · · · · · · · · · · · · · · · · · ·	
internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation	1.	
04XFP2 French for Advanced Students P2	Z_	2
With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on gi	ven topics. Features	s typical of
technical and scientific communication are stressed (passive voice, nominalization, word formation).  O4XFP3  French for Advanded Students P3	Z	2
The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in encourse.		
skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covers	-	-
topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.		
04XFPZK French for Advanced Students Examination	ZK	4
The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part a	=	cording to
Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination gra		
04XFZ1   French for Beginners Z1 French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in soci	Z	2
The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to		
level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravd		- 1
(Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pe		- 1
giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronu		
04XFZ2 French for Beginners Z2	Z	2
The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreeme		
thanking, travelling, 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
The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda -		-
Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info	ormation and loud a	s part of
pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.  O4XFZ4 French for Beginners Z4	Z	2
04XFZ4   French for Beginners Z4 The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The con	l l	
lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture		
Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping		
country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, interne	∍t	

04XFZ5 French for Beginners Z5	Z	2
All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pre	=	
general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. Top		
notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate cla subjunctive clauses, gerund, passive.	uses, typicai conju	inctions,
	ZK	3
04XFZZK French for Beginners Examination  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	Į.	
Instruction for examination. Its content covers the levels FZ1 - FZ5.	mon is ruled by the	document
04XNM1 German for Intermediate Students M1	Z	2
The objective of the course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and str		_
word formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Reput		
environmental issues 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 underst	andability.	
04XNM2 German for Intermediate Students M2	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation being	tween technology a	and society,
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and c	ar technology etc.	Students
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic	cally revises other g	rammatical
phenomena important for professional discourse (participles, relative clauses).		
04XNM3 German for Intermediate Students M3	Z	2
The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between the course introduces of the course introduced on the course in		
the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and c		
practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematic	ally revises other g	rammaticai
phenomena important for professional discourse (participles, relative clauses).	71/	4
04XNMZK German for Intermediate Students Examination  The course content is the examination as sixen by the students. The whole Course for Intermediate Students Course is completed by an examination.	ZK	4
The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment.		
is to be obtained from the teacher.	int. More detailed ii	illormation
04XNP1 German for Advanced Students P1	7	2
This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled to be secondary school to be levelled to be secondary school to be secondary scho	_	_
course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for de	_	- 1
more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on prac	•	- 1
i.e., telephoning.	, ,	
04XNP2 German for Advanced Students P2	Z	2
The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending	their general and s	ubtechnical
vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra	ctising formal com	munication,
both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirective, indirective).	ect speech).	
both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirective, indirective).  O4XNP3  German for Advanced Students P3	ect speech).	2
04XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie	Z ty of less common	situations
04XNP3 German for Advanced Students P3  The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal	Z ty of less common bulary range in fiel	situations ds such as
O4XNP3  German for Advanced Students P3  The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used.	Z ty of less common bulary range in fiel By means of a pres	situations ds such as sentation,
O4XNP3 German for Advanced Students P3  The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. It students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The contractions are trained to process.	Z ty of less common bulary range in fiel By means of a pres	situations ds such as sentation,
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D4XNP3   German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. It is students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The corpus content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination con 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.  O4XRM1	ty of less common bulary range in field by means of a presourse also includes ourse assessment. More assessment. More outside our outside our outside outs	situations ds such as sentation, translation  4 ets - written e detailed  2 andwritten), directions), urse. The  2 me allotted  4 red in RM1 eher.  2 grammar  2 syntactic  2 RP1 - RP3
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O4XNP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. It students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The correction to an doral, which cover the course in the study plan. The whole German for Advanced Students Course is completed by an examination cand 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.  O4XRM1 Russian for Intermediate Students M1 The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement it contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the iterated of 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 course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, hower in the timetable.  O4XRMZ Russian for Intermediate Students Examination.  Russian for Intermediate Students Examination. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instructures, understanding the funda	ty of less common bulary range in field by means of a presourse also includes burse assessment. More assessment. More between a burse and giving evel of the RZ2 code.  Z but imetable.  Z burser, for half of the time to the tim	situations ds such as sentation, translation  4 ets - written e detailed  2 andwritten), directions), urse. The  2 me allotted  4 red in RM1 eher.  2 grammar  2 syntactic  2 RP1 - RP3 and expand b. Students
D4XNP3   German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a varie (traftic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocal nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. It students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The corporation are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The corporation of the course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination con 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.  O4XRM1	ty of less common bulary range in field by means of a presourse also includes burse assessment. More assessment. More between a burse and giving evel of the RZ2 code.  Z but imetable.  Z burser, for half of the time to the tim	situations ds such as sentation, translation  4 ets - written e detailed  2 andwritten), directions), urse. The  2 me allotted  4 red in RM1 eher.  2 grammar  2 syntactic  2 RP1 - RP3 and expand b. Students

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 RP1 - 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. Russian for Beginners Z1 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 mastering 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 read a short text with marked stress, understand its contents and summarize it. Russian for Beginners Z2 The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtechnical texts. Students will be 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 vocabulary and master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing. 04XRZ3 Russian for Beginners Z3 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 skills 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 be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. 04XRZ4 Russian for Beginners Z4 The course is based on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a certain percentage of unfamiliar words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs, differences in verb patterns from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and practice oral and written communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g., Siberia), learn how to fill in forms, look up the information from the timetable, learn about Russian holidays and typical meals. 04XRZ5 Russian for Beginners Z5 7 2 The course expects the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding, extracting and summarizing information from a specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Communication skills are trained on everyday topics. Studying grammar is based on professional and technical texts and only includes items typically used in professional communication (verbal adjectives, participles, passive voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, polite request, etc.) 04XRZZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RZ1 - RZ5. Students are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instructions by the teacher. Spanish for Intermediate Students M1 04XSM1 The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. Spanish for Intermediate Students M3 2 The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be able to work with specialized texts on the Internet. 04XSM3 Spanish for Intermediate Students M3 Ζ 2 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. 04XSMZK Spanish for Intermediate Students Examination 4 The course content is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the written part, students will have obtained non-graded assessment for course XSM3. Oral examination follows the written part. 04XSP1 Spanish for Advanced Students P1 Ζ 2 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR. Spanish for Advanced Students P2 Ζ 2 Course XSP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. 04XSP3 Spanish for Advanced Students P3 Ζ 2 Course XSP3 is the final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. Spanish for Advanced Students Examination The course content is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite for admission to oral part is having passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan of the student. Spanish for Beginners Z1 04XS71 2 Course XSZ1 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. Spanish for Beginners Students Z2 Course XSZ2 is based on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and lexis will be chosen so as to enable them to understand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries and others such as the Czech Republic. Realia of Spanish-speaking countries are also included. Spanish for Beginners Z3 04XSZ3 This course builds upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It includes an introduction to the realia and cultural context of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including the pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics. Students are prepared for this through targeted reading and listening activities. 04XSZ4 Spanish for Beginners Z4 2 The course is based on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish speaking countries, mainly of Spain, It pays attention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive). to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.

04XSZ5 The course books	Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for	Z r specific purposes	2 s. In its final
	part, the general Spanish course based on the course book will end with a written and oral examination.		
04XSZZK The course cont	Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex	ZK amination only if h	3 e/she has
	passed the written examination test.		
11BSEM	Bachelor Seminar	Z	1
In the first part of the	he seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ	irements for bache	elors degree
	culty. The second part is designed as a practical training for the defence 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	lities of improving t	he students
	performance.		
11UFP	Introduction to Solid State Physics	ZK	3
	tains the fundamentals of diffraction stress analysis with a strong emphasis on the illustrations of the capability of X-ray diffraction to s		
11UFPLN	Introduction to Solid State Physics  The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics.	ZK	2
11ZFP	Basic to Solid State Physics	ZK	3
	lamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding	g interaction betwe	en atoms in
solids, various type	es of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic	c thermal propertie	s of crystals
	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in	,	
energy bands ex	xplained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s	systematically intro	duce and
	interpret a broad phenomenological basis of physical properties of crystalline solids		
11ZFPL	Basic to Solid State Physics	KZ	2
	lamental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding		
	es of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basi- periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in		-
	periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in explained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s	•	
chergy bands ca	interpret a broad phenomenological basis of physical properties of crystalline solids	ysternationly intro	adoc and
12MOF	Molecular Physics	ZK	2
	ideas on physics of molecules and molecular matter, and on structure-to-physical properties relationship. Methods of molecular struct		_
12NME1	Numerical Methods 1	Z,ZK	4
	red the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me	,	
	icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat		- 1
	used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory.		
12UFN	Introduction to Photonics and Nanostructures	KZ	3
Overview of nanos	tructures and nanotechnologies; quantum technologies; quantum nanostructures; photonic structures; nanophotonics and nanoplasm	onics; optical wave	eguides and
	fibers; integrated photonics; computer simulations; technological realization; student presentations		
12ULTB	Introduction to Laser Technique	KZ	3
Overview of elect	romagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lasers;	laser safety preca	utions. The
	laser amplifier, Q-switching, mode-locking.		
12UMF	Introduction to Modern Physics	Z	3
The course is inter	nded to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A	part of the course	is delivered
4011054	in a computational laboratory.	7.71	
12UPF1	Introduction to Computational Physics 1	Z,ZK	2
	on and its role in physics, methodology of writing computer codes. Computer languages for physics. Numerical libraries and program isualization. Computational fluid dynamics, hydrodynamic simulations, methods for discretization of Euler equations. High-performance		
tools for scientific v	software for parallel simulations. Databases of scientific information, scientist evaluation, citation analysis.	computing, paralle	computing,
12VKT	Vacuum Technology	KZ	4
	basic concepts and relations; diffusion,flow of rarefied gases. Flow and current of gas, conductivity. Interaction of gas with solid surfa		
-	solid matter; evaporation, condensation; Vacuum generation: Pumping proces, Ultimative pressure, Pumping speedPumps and their pro	•	
pumps: Diaphrag	m, Sliding vane rotary, Diffusion, Molecular, Roots, Molecular and Turbomolecular pumps. Sorption pumps: Cryopumps, Cryo-Adsorp	tion pumps, Sublin	nation and
NEG pumps, Ion	getter pumps Vacuum measurements: vacuum gauges of total and partial pressure; pumping speed; gas flow, search for leaks. Mater	ials and vacuum c	omponents
	and seals.Practical exercises.		
12ZEL1	Basic Electronics 1	Z,ZK	3
	des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu		
	le symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient eff		
12ZEL2	Basic Electronics 2	Z,ZK	3
	ws up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic th	-	
12ZELD	Fundamentals of Electrodynamics	Z,ZK	2
	derivation of Maxwell-Lorentz microscopic equations followed by transition to Maxwell macroscopic theory. Using special theory of re	' <del>-</del>	
	eld vectors between two inertial systems of coordinates with appropriate invariants. Wave and Helmholtz equations are derived. By expan of solving these equations are studied in homogeneous media with gradually increasing complexity: isotropic without losses, with abs	· ·	
	ic. Finally, solution in weakly non-homogeneous madia is presented using the method of eiconal. Individual chapters are illustrated by		
12ZFP	Principles of Plasma Physics	Z,ZK	4
	gh temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariants, line	,	
	f electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and parame		
	comprises brief introduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are		
12ZMDT	Measurement and Data Processing	Z,ZK	2
	for the measurements and data processing and result interpretation: errors, precision, accuracy, normal distribution and its propeties,		
	signal from the noise.		

	T		1
12ZPLT	Basic Laser Technique Laboratory	KZ	6
	Nd:YAG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmonic,		
	de pumped Nd:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acou		
12ZPOP	Basic Optical Laboratory	KZ	6
	he practical laboratories give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be		
14TEM	Engineering Mechanics	Z,ZK	6
Abstract: The cour	rse represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strain a	nalysis of real s	ructure parts
	(elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application.		
15CH1	General Chemistry 1	Z	3
The most importan	nt concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical us solved in exercises.	se are illustrated	by examples
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 very eprinciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises.	-	
16MEZB	Fundamentals of Ionizing-Radiation Metrology	Z,ZK	4
The course summa	arizes the basic objectives and content of ionizing radiation metrology. It deals with the interpretation of radiation quantities and units in	n metrology. It su	mmarizes the
theoretical and exp	perimental foundations of metrology, the determination of basic parameters of radiation. Lectures are supplemented with basic summa	ary of relevant le	gislation and
	regulations.		
16ZDOZ1	Fundamentals of Radiation Dosimetry 1	Z,ZK	4
History, develop	pment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionizing	ations, energy tra	ansfer and
	absorption. Fundamentals of the effects of ionizing radiation.		
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16ZDOZ2	Fundamentals of Radiation Dosimetry 2	ZK	
16ZDOZ2 Fundamentals of bi	Fundamentals of Radiation Dosimetry 2   iological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles a		1
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