Study plan

Name of study plan: Matematické inženýrství - Matematická informatika

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Mathematical Engineering

Type of study: Bachelor full-time

Required credits: 0

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

Note on the plan:

Name of the block: Compulsory courses in the specialization

Minimal number of credits of the block: 0

The role of the block: PS

Code of the group: BSPMIMINF1

Name of the group: BS P_MIB MINF 1st year

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 15 courses

Credits in the group: 0

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

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|-------|----------|------|
| 02DEF1 | History of Physics 1 Igor Jex Igor Jex (Gar.) | Z | 2 | 2+0 | Z | PS |
| 01DIM1 | Discrete Mathematics 1 Edita Pelantová, Zuzana Masáková, Lubomíra Dvo áková Lubomíra Dvo áková Zuzana Masáková (Gar.) | Z | 2 | 2P+0C | Z | PS |
| 01DIM2 | Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.) | Z | 2 | 2P+0C | L | PS |
| 02ELMA | Electricity and Magnetism Iskender Yalcınkaya, Josef Schmidt, Ji í Hrivnák, Goce Chadzitaskos, Jan Vysoký Jan Vysoký Josef Schmidt (Gar.) | Z,ZK | 6 | 4+2 | L | PS |
| 01LAL | Linear Algebra 1 Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | Z | 2 | 2P+2C | | PS |
| 01LALZ | Linear Algebra 1, exam Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | ZK | 2 | 0P+0C | | PS |
| 01LAL2 | Linear Algebra 2 Lubomíra Dvo áková, Petr Ambrož Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | Z,ZK | 4 | 2P+2C | | PS |
| 01MAN | Calculus 1 Pavel Strachota Pavel Strachota (Gar.) | Z | 4 | 4+4 | | PS |
| 01MANZ | Calculus 1, exam Edita Pelantová, Pavel Strachota, Miroslav Kolá Pavel Strachota Pavel Strachota (Gar.) | ZK | 4 | 0P+0C | | PS |
| 01MAN2 | Calculus 2 Edita Pelantová, Maksym Dreval, Miroslav Kolá 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 Yalcinkaya, 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 |

| 18ZALG | Basics of Algorithmization Jan Tomsa, Petr Pauš, Vladimír Jarý, František Vold ich, Miroslav Virius, František Gašpar, Zuzana Pet í ková Vladimír Jarý Miroslav Virius (Gar.) | Z,ZK | 4 | 2+2 | L | PS |
|--|--|--|--|--|--|---|
| 18ZPRO | Basics of Programming Jan Tomsa, Petr Pauš, Vladimír Jarý, Miroslav Virius, Zuzana Pet í ková, Jan Vondruška, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.) | Z | 4 | 4C | Z | PS |
| haracteristics of | of the courses of this group of Study Plan: Code=BSPMIMINF1 Name | e=BS P_MIB | MINF 1 | st year | | |
| D2DEF1 | History of Physics 1 | | | | Z | 2 |
| | in the system of sciences. The relationship of man and nature. Natural sciences in ancient Ori | ientand Greece, | Greek natu | ral philosoph | - 1 | le. Physics in |
| lelenistic period, Arc | chimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B | Bruno. Copernicu | ıs, Kepler, G | alileo, Huyge | ens. The bir | rth of physics |
| s experimental scier | nce. Newton and his work. | | | | | |
| 1DIM1 | Discrete Mathematics 1 | | | | Z | 2 |
| he seminar is devote | ed to elementary number theory and applications. In addition to the material discussed, it inclu | ides individual p | roblem solv | ing. ['] | ' | |
| 1DIM2 | Discrete Mathematics 2 | | | | Z | 2 |
| he seminar is devote | ed to recurrence relations. It includes individual problem solving. | | | ' | ļ | |
| | | | | | | |
| 2ELMA | Electricity and Magnetism | | | Z | ′.ZK | 6 |
| | Electricity and Magnetism omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric | cs. Electric curre | ent and circu | | Z,ZK vity. Basics | • |
| lectric charge, Could | | | | uits, conducti | vity. Basics | • |
| lectric charge, Could neory. Electrodynami | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric | | | uits, conducti | vity. Basics | • |
| lectric charge, Could neory. Electrodynami | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. | Electromagnetic | waves, Ma | uits, conduction | vity. Basics ons. | of the relativi |
| lectric charge, Could neory. Electrodynami 1LAL . Vector space. 2. Lir | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Linear Algebra 1 | Electromagnetic | waves, Ma | uits, conduction | vity. Basics ons. | of the relativi |
| lectric charge, Could neory. Electrodynami 1LAL . Vector space. 2. Lin neorem. | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Linear Algebra 1 | Electromagnetic | waves, Ma | uits, conduction xwell equation | vity. Basics ons. | of the relativi |
| lectric charge, Could lecory. Electrodynami 1LAL Vector space. 2. Lin lecorem. 1LALZ | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Linear Algebra 1 near dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. | Electromagnetic | waves, Ma | uits, conductivity xwell equation leads to the conduction leads to the conductivity and the conductivity are conducted as a conductivity and the conductivity are conductivity are conductivity are conductivity and the conductivity are conductivity are conductivity and the conductivity are conductivity are conductivity are conductivity and the conductivity are conductivity are conductivity and the conductivity are conductivity are conductivity and the conductivity are conductivity are conductivity and the conductivity are conductivity and the conductivity are conductivity and the conductivity are conductivity and conductivity are conductivity are conductivity and conductivity are conductivity and conductivity are conductivity are conductivity and conductivity are conductivity and conductivity are conductivity are conductivity are conductivity and conductivit | vity. Basics ons. Z mappings. | of the relativit 2 7. Frobenius |
| lectric charge, Could neory. Electrodynami 1LAL Vector space. 2. Lin neorem. 1LALZ 1LALZ | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectric forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Linear Algebra 1 near dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. Linear Algebra 1, exam | Electromagnetic | waves, Ma | uits, conductive xwell equation with the conductive xwell equation with the conductive xwell equation in the conductive xwell equati | vity. Basics ons. Z mappings. | of the relativity 2 7. Frobenius 2 4 |
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of a rigid body, rotation. 02MECHZ Mechanics - Examination ZK 2 The content of the subject is the examination according to the plan of studies. 00PT Preparatory Week Ζ 2 18ZALG 4

one-dimensional motion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, particle collisions. Mechanics

Basics of Algorithmization Z,ZK This course is devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the algorithm complexity. 18ZPRO

This course is intended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in programming and with the Python programming language.

Code of the group: BSPMIMINF2

Name of the group: BS P_MIB MINF 2nd year

Basics of Programming

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.

| Note on the group | θ. | | | | | |
|-------------------|---|------------|---------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| 01TA | Algebra and Calculus in Applications Edita Pelantová, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | ZK | 2 | 2P+0C | | PS |
| 01DIFR | Differential Equations Michal Beneš Michal Beneš Michal Beneš (Gar.) | Z,ZK | 4 | 2P+2C | L | PS |
| 01DIMA3 | Discrete Mathematics 3 Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | ZK | 2 | 2P+0C | | PS |
| 01LIP | Linear Programming Jan Bureš, Radek Fu ík, Jan Volec Jan Volec Radek Fu ík (Gar.) | Z,ZK | 3 | 2+1 | Z | PS |
| 01ANA3 | Mathematical Analysis A 3 Radek Fu ík, František Štampach František Štampach (Gar.) | Z,ZK | 9 | 4P+4C | | PS |

| 01ANA4 | Mathematical Analysis A 4 František Štampach František Štampach (Gar.) | Z,ZK | 9 | 4P+4C | | PS |
|--------|---|------|---|-------|---|----|
| 01NMA1 | Numerical Mathematics 1 Tomáš Oberhuber Tomáš Oberhuber (Gar.) | ZK | 4 | 4+0 | | PS |
| 18PRC1 | Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.) | Z | 4 | 2+2 | Z | PS |
| 18PRC2 | Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.) | KZ | 4 | 2+2 | 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=BSPMIMINF2 Name=BS P_MIB MINF 2nd year

| 01TA | Algebra and Calculus in Applications | ZK | 2 |
|--|---|---|--|
| We illustrate method | s based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorei | ms are motivated by | y problems from |
| informatics and they | are illustrated on problems from informatics. | | |
| 01DIFR | Differential Equations | Z,ZK | 4 |
| The course contains | introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics | of the existence th | eory, solution of |
| linear types of equa | ions and introduction in the theory of boundary-value problems. | | |
| 01DIMA3 | Discrete Mathematics 3 | ZK | 2 |
| Students get to know | v problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem s | olving of ones own | choice from the |
| given literature. | | | |
| 01LIP | Linear Programming | Z,ZK | 3 |
| The course deals wi | th special problems concerning bound extremes of functions of several variables (the function is linear and the constraints are i | n the form of linear | equations and |
| inequalities). | | | |
| 01ANA3 | Mathematical Analysis A 3 | Z,ZK | 9 |
| Function sequences | and series, introduction to topology and metric spaces, differential calculus of functions of several variables. | | |
| | | | |
| 01ANA4 | Mathematical Analysis A 4 | Z,ZK | 9 |
| • | Mathematical Analysis A 4 functions, constrained extrema, measure and integration theory, contour and surface integrals. | Z,ZK | 9 |
| • | | Z,ZK | 9 |
| Inverse and implicit 01NMA1 | functions, constrained extrema, measure and integration theory, contour and surface integrals. | ZK | 4 |
| Inverse and implicit 01NMA1 | functions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a go | ZK | 4 |
| Inverse and implicit 01NMA1 The course introduc | functions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a go | ZK | 4 |
| Inverse and implicit 01NMA1 The course introduc theoretical methods 18PRC1 | functions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a go | ZK ood understanding | 4 of the root of |
| Inverse and implicit 01NMA1 The course introduc theoretical methods 18PRC1 | functions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good programming in C++ 1 nainly the C programming language and non-object oriented features of the C++ language. | ZK ood understanding | 4 of the root of |
| Inverse and implicit 01NMA1 The course introduc theoretical methods 18PRC1 This course covers in | functions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a government of the control | ZK cood understanding Z | 4 of the root of |
| Inverse and implicit 01NMA1 The course introduc theoretical methods 18PRC1 This course covers in | Innotions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good programming in C++ 1 nainly the C programming language and non-object oriented features of the C++ language. Programming in C++ 2 | ZK cood understanding Z | 4 of the root of |
| Inverse and implicit 01NMA1 The course introduc theoretical methods 18PRC1 This course covers i 18PRC2 This course covers to 02VOAF | Innotions, constrained extrema, measure and integration theory, contour and surface integrals. Numerical Mathematics 1 | ZK pood understanding Z KZ te Library. Z,ZK | 4 4 4 6 |
| Inverse and implicit 01NMA1 The course introductheoretical methods 18PRC1 This course covers i 18PRC2 This course covers to 02VOAF Wave phenomena ir | Numerical Mathematics 1 es to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a go Programming in C++ 1 mainly the C programming language and non-object oriented features of the C++ language. Programming in C++ 2 he object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Templat Waves, Optics and Atomic Physics | ZK pood understanding Z KZ te Library. Z,ZK rization, interference | 4 of the root of 4 4 6 e, diffraction, |

Code of the group: BSPMIMINF3

Name of the group: BS P_MIB MINF 3rd year

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|--------|----------|------|
| 01ALGE | Algebra Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) | Z,ZK | 6 | 4+1 | | PS |
| 01BPMI1 | Bachelor project 1 Pavel Strachota, Václav K s, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.) | Z | 5 | 0P+5C | | PS |
| 01BPMI2 | Bachelor project 2 Pavel Strachota, Libor Šnobl Pavel Strachota Pavel Strachota (Gar.) | Z | 10 | 0P+10C | | PS |
| 01FKO | Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.) | Z,ZK | 3 | 2+1 | | PS |
| 01NMA2 | Numerical Mathematics 2 Michal Beneš, Tomáš Oberhuber Tomáš Oberhuber Michal Beneš (Gar.) | Z,ZK | 3 | 2P+1C | L | PS |
| 01PGR1 | Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.) | Z,ZK | 2 | 1P+1C | | PS |
| 01PGR2 | Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.) | Z,ZK | 2 | 1P+1C | | PS |
| 01PRSTB | Probability and Statistics B Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.) | KZ | 4 | 3+1 | Z | PS |
| 18PJ | Programming in Java Miroslav Virius Miroslav Virius (Gar.) | Z,ZK | 5 | 2P+2C | Z | PS |

| 01BASE | Bachelor Seminar Pavel Strachota Pavel Strachota (Gar.) | Z | 1 | 0P+2S | | PS |
|--------|--|------|---|-------|---|----|
| 01TKO | Theory of Codes Edita Pelantová, Jan Volec Edita Pelantová Jan Volec (Gar.) | ZK | 2 | 2P+0C | L | PS |
| 01ZAOS | Introduction to Operating Systems Zden k ulik Zden k ulik Zden k ulik (Gar.) | Z,ZK | 2 | 2+0 | L | PS |

Characteristics of the courses of this group of Study Plan: Code=BSPMIMINF3 Name=BS P_MIB MINF 3rd year 01ALGE 6 The lecture discusses some parts of set theory, e.g., equivalence and subvalence of sets, the Cantor-Bernstein theorem, the axiom of choice and equivalent statements. Furthermore, standard algebraic structures are discussed: semigroups, monoids, groups, rings, integral domains, principal ideal domains, fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields. 01BPMI1 Bachelor project 1 Ζ 5 The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common regular meetings and discussions 01BPMI2 Bachelor project 2 The bachelor project is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the project supervisor during common regular meetings and discussions. 01FKO Functions of Complex Variable 3 The course starts from outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are explained in detail: the derivative of a complex function and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauchy's integral theorem, Morera's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue theorem. 01NMA2 Numerical Mathematics 2 Z,ZK The course is devoted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. It explains methods converting boundary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equations. 01PGR1 Computer Graphics 1 The first part of the two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of the art technologies. Further, a survey of fundamental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of computer graphics approaches in the process of authoring scientific documents and presentations. 01PGR2 Computer Graphics 2 The second part of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenomenon ubiquitous in computer graphics. Further, a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description of a 3D scene to its realistic rendering. Focus is put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in a variety of subjects available at FNSPE. The algorithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretical concepts are demonstrated using Blender, an open-source 3D modeling and rendering software instrument. 01PRSTB Probability and Statistics B 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. 18PJ Programming in Java Z,ZK 5 This course is devoted to the Java platform and to the development of the basic types of applications for this platform. Z 01BASE **Bachelor Seminar** In the first part of the seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requirements for bachelors degree projects at the faculty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral presentations of the current state of the research results achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possibilities of improving the students performance 01TKO Theory of Codes ZK 2 Algebraic methods used in error detecting and error correcting codes. 01ZAOS Introduction to Operating Systems Z,ZK 2

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

Introduction to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Memory mapped files.

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

| | 9 | _ | - | | | |
|--------|--|------------|---------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| 00EKOT | Economy in Technology Jana Ková ová | Z | 1 | 2+0 | | PV |

| 00ETV | Ethics of Science and Technology Jakub Hají ek Jana Ková ová Jakub Hají ek (Gar.) | Z | 1 | 0+2 | L | PV |
|--------|---|---|---|-----|---|----|
| 00RET | Rhetoric Jana Ková ová Jana Ková ová Jana Ková ová (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 | Z | 1 | 0+2 | | PV |

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

| Economy in Technology | Z | 1 | | |
|---|---|---|--|--|
| The course introduces the basics of micro- and macroeconomics. | | | | |
| Ethics of Science and Technology | Z | 1 | | |
| Rhetoric | Z | 1 | | |
| n the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the | ne composition of | public speech | | |
| al aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an | integral part of the | ne course. | | |
| Introduction to Law | Z | 1 | | |
| Introduction to Psychology | Z | 1 | | |
| | he basics of micro- and macroeconomics. Ethics of Science and Technology Rhetoric In the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the all aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an Introduction to Law | he basics of micro- and macroeconomics. Ethics of Science and Technology Z Rhetoric Z In the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the composition of all aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an integral part of the Introduction to Law Z | | |

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 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 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 Beatriz Vadillo Gonzalo (Gar.) | ZK | 4 | | Z | PV |
| 04XSZZK | Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | ZK | 3 | | L | PV |

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

| 04XAMZK | English for Intermediate Students Examination | ZK | 4 | | | | |
|---|---|----|---|--|--|--|--|
| The course content is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts - written (100 min) and ora | | | | | | | |
| (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English courses. | | | | | | | |
| 04XAPZK | English for Advanced Students Examination | ZK | 4 | | | | |
| The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04XAP3 syllabus and the ability to apply their knowledge | | | | | | | |

The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04XAP3 syllabus and the ability to apply their knowledge obtained in the three 04XAP courses. In addition to passing courses 04XAP1, 04XAP2, and 04XAP3, a prerequisite for taking the exam is a presentation on a specialized topic in the student's field. The examination consists of 2 parts - written and oral.

| 04XCESZZK Czech for Foreigners Beginners - Examination | ZK | 4 |
|--|---|---|
| The course content is the examination as given by the study plan. The examination consisting of a written and c | | |
| only be taken after successful completion of all three courses. Detailed information is to be obtained from the te | • | ouroco una can |
| 04XCESMZK Czech for Intermediate Students Examination | ZK | 4 |
| The course content is the examination as given by the study plan. The examination consisting of a written and c | l I | ses and can only |
| be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. | · | • |
| 04XCESPZK Czech for Foreign Students - Advanced Examination | ZK | 4 |
| The course content is the examination as given by the study plan. The examination consisting of a written and c | oral part covers all the topics of the CESP1,2,3 cours | ses and can only |
| be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. | | |
| 04XFMZK French for Intermediate Students Examination | ZK | 4 |
| The content is the examination as given by the study programme. The whole French programme is ended with a | an examination covering the contents of FM1-FM3. T | he examination |
| consists of a written and oral part and is organized according to Examination Instructions, a document available | e on the web. | |
| 04XFPZK French for Advanced Students Examination | ZK | 4 |
| The whole French program is ended with an examination covering the contents of FP1-FP3. The examination co | onsists of a written and/or an oral part and is organiz | zed according to |
| Examination Instructions, a document available on the web. Assessment of the presentation is included into the | examination grading. | |
| 04XFZZK French for Beginners Examination | ZK | 3 |
| The content is the examination as given by the study plan. The course is terminated with an examination consis | sting of oral and written part. The examination is ruled | d by the documen |
| nstruction for examination. 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 | two parts - writte |
| and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully a | and after obtaining the 04NM3 assessment. More det | tailed information |
| | and antor obtaining the entitle acceptanional more ac- | talled information |
| | | talled IIIIOITTIAtion |
| s to be obtained from the teacher. | ZK | 4 |
| s to be obtained from the teacher. O4XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C | ZK Course is completed by an examination consisting of | 4 two parts - written |
| Sto be obtained from the teacher. 14XNPZK German for Advanced Students Examination 15 Che course content is the examination as given by the study plan. The whole German for Advanced Students Country and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully and oral. | ZK Course is completed by an examination consisting of | 4 two parts - writter |
| s to be obtained from the teacher. O4XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. | ZK course is completed by an examination consisting of a steer obtaining the 04NP3 ungraded assessment. | 4 two parts - written |
| So to be obtained from the teacher. O4XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. O4XRMZK Russian for Intermediate Students Examination | ZK course is completed by an examination consisting of after obtaining the 04NP3 ungraded assessment. | 4 two parts - written More detailed |
| So to be obtained from the teacher. O4XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. O4XRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written as | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills | 4 two parts - written More detailed 4 s acquired in RM1 |
| AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. AXRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills | 4 two parts - written More detailed 4 s acquired in RM1 |
| So to be obtained from the teacher. 14XNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C 15 and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. 15 and The Course Content is the examination as given by the study plan. The course is completed by taking a written as RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. 16 and The Course is completed by taking a written as RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. | ZK course is completed by an examination consisting of a find after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the teach | 4 two parts - writter More detailed 4 s acquired in RM1 cher. 4 |
| So to be obtained from the teacher. AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an another information is to be obtained from the teacher. AXRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written as RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination The course content is the examination as given by the study plan. The course is completed by taking a written as the course content is the examination as given by the study plan. The course is completed by taking a written as the course content is the examination as given by the study plan. The course is completed by taking a written as the course content is the examination as given by the study plan. | ZK course is completed by an examination consisting of a first obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the team ZK and oral examination testing the knowledge and skills | 4 two parts - writter More detailed 4 s acquired in RM1 cher. 4 s acquired in RP1 |
| Sto be obtained from the teacher. 14XNPZK German for Advanced Students Examination 1. The course content is the examination as given by the study plan. The whole German for Advanced Students C 1. Indicate the course of the course of the course of the teacher. 1. Indicate the course of the course of the teacher. 1. Indicate the course of the teacher of the course of the cou | ZK course is completed by an examination consisting of a first obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the team ZK and oral examination testing the knowledge and skills | 4 two parts - writter More detailed 4 s acquired in RM* cher. 4 s acquired in RP1 |
| AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an aniformation is to be obtained from the teacher. AXRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination AXRZZK Russian for Beginners Examination | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. Students are given instructions by the teach | 4 two parts - writter More detailed 4 s acquired in RM1 cher. 4 s acquired in RP1 her. 3 |
| AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C and oral, which cover the courses NP1 - NP3. The oral part follows after passing the written part successfully an information is to be obtained from the teacher. AXRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination AXRZK Russian for Beginners Examination The course content is the examination as given by the study plan. The course is completed by taking a written at RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination of the course content is the examination as given by the study plan. The course is completed by taking a written at RM3. | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. | 4 two parts - writter More detailed 4 s acquired in RM* cher. 4 s acquired in RP1 her. 3 s acquired in RZ1 |
| Sto be obtained from the teacher. AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C The oral part follows after passing the written part successfully an antiformation is to be obtained from the teacher. AXRMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written as a place and a successful written examination The course content is the examination as given by the study plan. The course is completed by taking a written examination The course content is the examination as given by the study plan. The course is completed by taking a written as the course content is the examination as given by the study plan. The course is completed by taking a written examination The course content is the examination as given by the study plan. The course is completed by taking a written examination The course content is the examination as given by the study plan. The course is completed by taking a written examination The course content is the examination as given by the study plan. The course is completed by taking a written examination The course content is the examination as given by the study plan. The course is completed by taking a written examination as given by the study plan. The course is completed by taking a written examination as given by the study plan. The course is completed by taking a written examination as given by the study plan. | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. | 4 two parts - writter More detailed 4 s acquired in RM cher. 4 s acquired in RP1 her. 3 s acquired in RZ1 |
| AXNPZK German for Advanced Students Examination The course content is the examination as given by the study plan. The whole German for Advanced Students C The oral part follows after passing the written part successfully an antormation is to be obtained from the teacher. The course content is the examination as given by the study plan. The course is completed by taking a written as RM3. Students are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. The course content is the examination as given by the study plan. The course is completed by taking a written examination. The course content is the examination as given by the study plan. The course is completed by taking a written as RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. The course content is the examination as given by the study plan. The course is completed by taking a written examination. The course content is the examination as given by the study plan. The course is completed by taking a written examination. The course content is the examination as given by the study plan. The course is completed by taking a written examination. | ZK course is completed by an examination consisting of and after obtaining the 04NP3 ungraded assessment. ZK and oral examination testing the knowledge and skills amination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. Students are given instructions by the teach and oral examination testing the knowledge and skills mination. | 4 two parts - writter More detailed 4 s acquired in RM cher. 4 s acquired in RP1 her. 3 s acquired in RZ1 |
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Name of the block: Elective courses

Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BSPMIMINFV

Name of the group: BS P_MIB MINF Optional courses Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

| Tiole on the group | o. | | | | | |
|--------------------|---|------------|---------|-------|----------|------|
| 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 |
| 02DEF2 | History of Physics 2 Igor Jex Igor Jex (Gar.) | Z | 2 | 2+0 | L | V |
| 01DEM | History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | Z | 1 | 0+2 | L | V |
| 01FANA1 | Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek (Gar.) | Z,ZK | 5 | 2P+2C | | V |
| 01FAN2 | Functional analysis 2 Pavel Š oví ek Pavel Š oví ek (Gar.) | Z,ZK | 5 | 2P+2C | | V |

| 01JEPR | Simple Compilers Zden k ulík Zden k ulík Zden k ulík (Gar.) | Z | 2 | 2 | L | V |
|---------|---|------|---|-------|---|---|
| 04AKS | English Conversation Jana Ková ová Jana Ková ová (Gar.) | Z | 1 | 0+2 | L | V |
| 00MAM1 | Essentials of High School Course 1 | Z | 1 | 0+1 | | V |
| 00MAM2 | Essentials of High School Math Course 2 Lukáš Heriban Lukáš Heriban (Gar.) | Z | 1 | 0+1 | | V |
| 18NES1 | Neural Networks 1 Zuzana Pet i ková Zuzana Pet i ková | KZ | 5 | 2P+2C | L | V |
| 15CH1 | General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z | 3 | 2+1 | Z | V |
| 15CH2 | General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z,ZK | 3 | 2+1 | L | V |
| 12POAL | Computer Algebra Richard Liska Richard Liska (Gar.) | KZ | 2 | 2 | Z | V |
| 01SITE1 | Computer Networks 1 Miroslav Minárik Miroslav Minárik (Gar.) | Z | 2 | 1+1 | Z | V |
| 01SITE2 | Computer Networks 2 Miroslav Minárik Miroslav Minárik (Gar.) | Z | 2 | 1+1 | L | V |
| 01PSR | Principles of Statistical Decision Making Václav K s Václav K s Václav K s (Gar.) | ZK | 2 | 2+0 | L | V |
| 01PERI | Programming of Peripherals Devices Zden k ulik Zden k ulik (Gar.) | Z | 2 | 2+0 | Z | V |
| 01PW | Windows Programming Zden k ulik Zden k ulik Zden k ulik (Gar.) | Z | 2 | 2+0 | Z | V |
| 18PMTL | Programming in MATLAB Mat j Pokorný, Quang Van Tran, Jaromír Kukal Quang Van Tran Jaromír Kukal (Gar.) | KZ | 4 | 4C | Z | V |
| 18PW | Web environment and markup languages Pavel Eichler Dana Majerová Dana Majerová (Gar.) | KZ | 2 | 2C | Z | V |
| 01PSL | LaTeX - Publication Instrument Petr Ambrož Petr Ambrož Petr Ambrož (Gar.) | Z | 2 | 0+2 | L | V |
| 01SAM | Seminar of Applied Mathematics Milan Krbálek Milan Krbálek Milan Krbálek (Gar.) | Z | 2 | 0P+2S | | V |
| 01SSM1 | Seminar of Contemporary Mathematics 1 Mat j Tušek Edita Pelantová (Gar.) | Z | 2 | 0+2 | Z | V |
| 01SOS1 | Software Seminar 1 Zden k ulík Zden k ulík Zden k ulík (Gar.) | Z | 2 | 0+2 | Z | V |
| 01SOS2 | Software Seminar 2 Zden k ulík Zden k ulík Zden k ulík (Gar.) | Z | 2 | 0+2 | L | V |
| TV-1 | Physical Education | Z | 1 | | Z | V |
| TV-2 | Physical Education | Z | 1 | | L | V |
| TV-3 | Physical education | Z | 1 | 0+2 | Z | V |
| TV-4 | Physical education | Z | 1 | 0+2 | L | V |
| 02TEF1 | Theoretical Physics 1 Petr Novotný Michal Jex Igor Jex (Gar.) | Z,ZK | 4 | 2+2 | Z | V |
| 02TEF2 | Theoretical Physics 2 Petr Novotný, Filip Petrásek Josef Schmidt Petr Novotný (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 02TER | Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 18INTA | Development of internet applications Jakub Klinkovský, Dana Majerová Dana Majerová (Gar.) | KZ | 4 | 2P+2C | L | V |
| 18UQI | Introduction to quantum informatics Aleš Wodecki Aleš Wodecki (Gar.) | Z | 3 | 2P | L | V |
| 01USU | Introduction to Machine Learning Jan Flusser Jan Flusser (Gar.) | Z,ZK | 4 | 2P+2C | | V |
| 12UNXAP | Introduction to UNIX Milan Kucha ík Milan Kucha ík (Gar.) | Z | 2 | 1P+1C | L | V |
| 12UVP | Introduction to Scientific Computing Milan Ši or Milan Ši or (Gar.) | Z | 2 | 1P+1C | L | V |
| 12ZEL1 | Basic Electronics 1 Jaroslav Pavel Jaroslav Pavel (Gar.) | Z,ZK | 3 | 2+1 | Z | V |
| 12ZEL2 | Basic Electronics 2 Jaroslav Pavel Jaroslav Pavel (Gar.) | Z,ZK | 3 | 2+1 | L | V |
| 01ZPB1 | Introduction to Computer Security 1 | Z | 2 | 1+1 | | V |

02DEF2 History of Physics 2

Development of classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. Electricity and magnetism - electrostatics, galvanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. The birth of modern quantum and relativistic physics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear energy, Elementary particles, standard model. The concept of Nature and Universe of today.

| 01DEM | History of Mathematics | Z | 1 |
|--|--|--|--|
| The subject has the | form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the fie | ld - give their talks | on varoius topi |
| from the history of r | nathematics. | | |
| 01FANA1 | Functional Analysis 1 | Z,ZK | 5 |
| D1FAN2 | Functional analysis 2 | Z,ZK | 5 |
| - | present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed | | _ |
| | prators, spectral decomposition of bounded self-adjoint operators. | | , |
| 01JEPR | Simple Compilers | Z | 2 |
| | analysis, code generation, simple optimizations, development environments, reflection. | _ | _ |
| 04AKS | English Conversation | Z | 1 |
| - | elop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commu | 1 | • |
| | various communication situations and will master their communication strategy. They will also practise their listening skills in or | | - |
| • | student will be trained to express their ideas clearly and according to current English usage, and become a more confident spe | | ana partioipat |
| DOMAM1 | Essentials of High School Course 1 | Z | 1 |
| | used to mathematical concepts and methods used in the introductory physics course. | | ' |
| | | Z | 1 |
| OOMAM2 | Essentials of High School Math Course 2 | _ | • |
| | tes the fundamental areas of mathematics essential for university studies and practical applications. It covers sets, logic, proofs | , iunctions, derivati | ves, integrals, |
| | combinatorics, and probability, with emphasis on understanding principles, rigor, and problem solving. | 1/7 | |
| 18NES1 | Neural Networks 1 | KZ | 5 |
| | se "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and | other related mach | ine learning |
| | al is to teach students how to apply these models and methods to solve practical tasks. | | |
| 15CH1 | General Chemistry 1 | Z | 3 |
| | concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practice and practice are concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practice are concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. | tical use are illustra | ted by examp |
| solved in exercises. | | 1 | |
| 15CH2 | General Chemistry 2 | Z,ZK | 3 |
| - | ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. U | - | |
| - | principles is not restricted only to chemical processes is documented. The significance and practical use of explained principle: | s are illustrated by | examples sol |
| n exercises. | | | |
| 2POAL | Computer Algebra | KZ | 2 |
| isp, representation | $of basic objects (integers, rational \ and \ algebraic \ numbers, polynomials, rational \ functions, radicals, algebraic \ functions), \ arithmet \ algebraic \ functions), \ arithmet \ functions, \ radicals, \ algebraic \ functions), \ arithmet \ functions), \ arithmet$ | ics, simplification, g | reatest comn |
| livisor, resultant, de | erivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, s | ubstitution and patt | ern matching |
| lgebraic programm | ing, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, M | acsyma, Mathemat | ica), miniproje |
| 1SITE1 | Computer Networks 1 | Z | 2 |
| | nistory and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Networ | k protocols practic | |
| | | | ai exercises v |
| TCP/IP communication | | | |
| | ions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification | authorities, public l | key infrastruct |
| (PKI). Use in praction | cions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification ce. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the | authorities, public leserial control lines, | key infrastructu modems) |
| (PKI). Use in practic | ions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification re. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the Computer Networks 2 | authorities, public leserial control lines, | modems) |
| PKI). Use in praction of the Inderstanding the Index of the Index | ions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification is Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the Computer Networks 2 nistory and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Networks | authorities, public k serial control lines, Z k protocols, practic | modems) 2 al exercises v |
| PKI). Use in practice O1SITE2 Understanding the ITCP/IP communica | ions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification is. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the Computer Networks 2 nistory and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Networkions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification | authorities, public leserial control lines, Z k protocols, practic authorities, public le | xey infrastruct modems) 2 al exercises v |
| PKI). Use in praction of the Individual of the Individual of Individual | ions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification is Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the Computer Networks 2 nistory and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Networkions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification is Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the | authorities, public leserial control lines, Z k protocols, practic authorities, public leserial control lines, | modems) 2 al exercises v xey infrastruct modems) |
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| 02TEF1 | Theoretical Physics 1 | Z,ZK | 4 |
| | duction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formali | | |
| | mics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elemen | | • |
| | f a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral princip | oles of mechanics. | The subject is |
| the first part of the co | urse of classical theoretical physics (02TEF1, 02TEF2). | | |
| 02TEF2 | Theoretical Physics 2 | Z,ZK | 4 |
| Tensors and transforn | nations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics a | and classical field the | heory in the |
| Minkowski space-time | e. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, ele | ctromagnetic radia | tion in the dipol |
| approximation. | | | |
| 02TER | Heat and Molecular Physics | Z,ZK | 4 |
| Thermal expansion of | materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyl | namic principle, ide | al and real gas |
| entropy; non-chemica | l systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity | y distribution,equip | artition theoren |
| 18INTA | Development of internet applications | KZ | 4 |
| The lectures provide a | an overview of modern technologies for the development of web applications. Students will learn basic web languages and co | ncepts (HTML, UR | L, etc.) and the |
| | to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simp | | |
| s oriented primarily to | owards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript. | | |
| I8UQI | Introduction to quantum informatics | Z | 3 |
| Juantum information | · | | |
| wantum imornation | nas been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis or | n quantum computii | ng. We discuss |
| | has been on the rise for years. In this course, we explore the basics of quantum information theory with a strong emphasis or ortant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with | | • |
| | | | • |
| ome of the most imp inderpinning. | ortant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with | the requisite amou | • |
| some of the most impunderpinning. | ortant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with Introduction to Machine Learning | the requisite amou | unt of theoretic |
| some of the most imp underpinning. D1USU The aim of this course | ortant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with | z,ZK the basic methods | unt of theoretic 4 s of learning wi |
| ome of the most imp inderpinning. OTUSU The aim of this course the teacher, cluster ar | ortant quantum principles that lead to the so called quantum advantage and discuss many important quantum algorithms with Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to | Z,ZK the basic methods actical applications | unt of theoretic 4 s of learning wi |
| some of the most imp underpinning. D1USU The aim of this course he teacher, cluster ar Python and run in cor | Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs. | Z,ZK the basic methods actical applications | unt of theoretic 4 s of learning wi |
| ome of the most imp inderpinning. ITUSU he aim of this course he teacher, cluster ar lython and run in cor 2UNXAP | Introduction to Machine Learning is is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical production to UNIX | Z,ZK the basic methods actical applications problems. | unt of theoretic 4 s of learning wis. Exercises us |
| ome of the most imp inderpinning. 01USU The aim of this course he teacher, cluster ar bython and run in con 2UNXAP Computer and operati | Introduction to Machine Learning is is to provide a broad introduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface. | Z,ZK the basic methods actical applications problems. Z face. Hardware and | 4 s of learning wis. Exercises us 2 |
| come of the most impunderpinning. O1USU The aim of this course he teacher, cluster are Python and run in con 12UNXAP Computer and operating principles of operating | Introduction to Machine Learning is to provide a broad introduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfig systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working the system. | Z,ZK the basic methods actical applications broblems. Z face. Hardware and g with files. Text ed | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emac |
| some of the most impunderpinning. D1USU The aim of this course he teacher, cluster are Python and run in con 12UNXAP Computer and operating Command interpreter | Introduction to Machine Learning is is to provide a broad introduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputer labs. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interfig systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard | Z,ZK the basic methods ractical applications problems. Z face. Hardware and g with files. Text ed rd tools. Computer | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emacenetworks. Local and the software and the s |
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| some of the most impunderpinning. D1USU The aim of this course the teacher, cluster are Python and run in conditional and operating Computer and operating Command interpreter computer networks. Gapplications 12UVP Practically oriented In | Introduction to Machine Learning is is to provide a broad introduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputers. Processor, memory, bus, devices, hard disk, network interfig systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working (shell) bash and its programming (scripts). Controlling processes, process status, computer. Network services: hardware laboratory interformed to the social processes and protocols TCP/IP. Network configutation of a computer. Network services: hardware | Z,ZK the basic methods actical applications problems. Z face. Hardware and g with files. Text ed tools. Computer sharing, mail, scp, | 4 s of learning wis. Exercises use 2 d software. ditors: vi, emac etc. Network |
| some of the most impunderpinning. D1USU The aim of this course he teacher, cluster are Python and run in contact and operating Computer and operating Command interpreter computer networks. Gapplications 12UVP Practically oriented In and technicval computer computer operations. | Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputers. Processor, memory, bus, devices, hard disk, network interface systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar industry of the computer networks. Addresses and protocols TCP/IP. Network configutation of a computer. Network services: hardware introduction to Scientific Computing troduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted withing, data analysis, data visualisation and algorithm development. | Z,ZK the basic methods actical applications problems. Z face. Hardware and g with files. Text ed tools. Computer sharing, mail, scp, | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emacenetworks. Localetc. Network 2 s fort scientific |
| some of the most impunderpinning. D1USU The aim of this course he teacher, cluster are Python and run in configuration of the teacher of th | Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputers. Processor, memory, bus, devices, hard disk, network interface systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar induction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with ting, data analysis, data visualisation and algorithm development. Basic Electronics 1 | Z,ZK the basic methods actical applications problems. Z face. Hardware and grid tools. Computer sharing, mail, scp, Z th some basic tools Z,ZK | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emacenetworks. Localetc. Network 2 s fort scientific |
| some of the most impunderpinning. D1USU The aim of this course the teacher, cluster are python and run in conditional teacher. Computer and operating Computer and operating Computer networks. Gapplications 12UVP Practically oriented In and technicyal computer 12ZEL1 The subject provides | Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputers. Processor, memory, bus, devices, hard disk, network interface systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working systems. Personal its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar indibal computer networks. Addresses and protocols TCP/IP. Network configutation of a computer. Network services: hardware introduction to Scientific Computing troduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted withing, data analysis, data visualisation and algorithm development. Basic Electronics 1 primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. C | Z,ZK the basic methods actical applications problems. Z face. Hardware and growing with files. Text end tools. Computer sharing, mail, scp, Z th some basic tools Z,ZK ircuit analysis methods | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emac networks. Loca etc. Network 2 s fort scientific 3 nods for linear |
| some of the most impunderpinning. D1USU The aim of this course the teacher, cluster are Python and run in configuration of the teacher and operating computer and operating command interpreter computer networks. Gapplications 12UVP Practically oriented In and technicval computer 12ZEL1 The subject provides | Introduction to Machine Learning is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to halysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and proputer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical proputers. Processor, memory, bus, devices, hard disk, network interface systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standar induction to Scientific Computing Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with ting, data analysis, data visualisation and algorithm development. Basic Electronics 1 | Z,ZK the basic methods actical applications problems. Z face. Hardware and growing with files. Text end tools. Computer sharing, mail, scp, Z th some basic tools Z,ZK ircuit analysis methods | 4 s of learning wis. Exercises us 2 d software. ditors: vi, emac networks. Loca etc. Network 2 s fort scientific 3 nods for linear |

Z

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

Introduction to Computer Security 1

Note on the group:

| Note on the g | roup: | | | | | |
|---------------|---|------------|---------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) | Completion | Credits | Scope | Semester | Role |
| | Tutors, authors and guarantors (gar.) | | | | | |
| 04XAM1 | English for Intermediate Students M1 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XAM2 | English for Intermediate Students M2 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | L | V |
| 04XAM3 | English for Intermediate Students M3 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XAP1 | English for Advanced Students P1 Jana Ková ová Darren Copeland (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XAP2 | English for Advanced Students P2 Jana Ková ová Darren Copeland (Gar.) | Z | 2 | 0+2 | L | V |
| 04XAP3 | English for Advanced Students P3 Jana Ková ová Darren Copeland (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XCESZ1 | Czech for Foreigners - Beginners 1 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XCESZ2 | Czech for Foreigners - Beginners 2 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | L | V |
| 04XCESZ3 | Czech for Foreigners - Beginners 3 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 28 | Z | V |

1. Designing secure systems 2. Secure programming techniques, static code analysis 3. Buffer overflow 4. Securing operation systems 5. Running untrusted code (sandboxing)

| 04XCESM1 | Czech for Foreigners - Intermediate 1 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
|----------|--|---|---|-----|-----|---|
| 04XCESM2 | Czech for Foreigners - Intermediate 2 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | L | V |
| 04XCESM3 | Czech for Foreigners - Intermediate 3 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XCESP1 | Czech for Foreign Students - Advanced 1 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XCESP2 | Czech for Foreigners - Advanced 2 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | L | V |
| 04XCESP3 | Czech for Foreigners - Advanced 3 Jana Ková ová Jana Ková ová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XFM1 | French for Intermediate Students M1 V ra Šlechtová V ra Šlechtová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XFM2 | French for Intermediate Students M2 V ra 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 | Z | 2 | 0+2 | Z | V |
| 04XFP2 | V ra Šlechtová V ra Šlechtová (Gar.) French for Advanced Students P2 | Z | 2 | 0+2 | L | V |
| 04XFP3 | V ra Šlechtová V ra Šlechtová (Gar.) French for Advanded Students P3 | Z | 2 | 0+2 | Z | V |
| 04XFZ1 | V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z1 V ra Šlechtová V ra Šlechtová (Gar.) | Z | 2 | 0+4 | L | V |
| 04XFZ2 | French for Beginners Z2 | Z | 2 | 0+4 | Z | V |
| 04XFZ3 | V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z3 | Z | 2 | 0+4 | L | V |
| 04XFZ4 | V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z4 V ra Šlechtová V ra Šlechtová (Gar.) | Z | 2 | 0+4 | Z | V |
| 04XFZ5 | V ra Šlechtová V ra Šlechtová (Gar.) French for Beginners Z5 | Z | 2 | 0+4 | L | V |
| 04XNM2 | V ra Šlechtová V ra Šlechtová (Gar.) German for Intermediate Students M2 | Z | 2 | 0+4 | L | V |
| | Miloslava echová Miloslava echová (Gar.) German for Intermediate Students M1 | Z | 2 | 0+2 | Z | |
| 04XNM1 | Miloslava echová Miloslava echová (Gar.) German for Intermediate Students M3 | | _ | | _ | V |
| 04XNM3 | Miloslava echová Miloslava echová (Gar.) German for Advanced Students P1 | Z | 2 | 0+2 | Z | V |
| 04XNP1 | Miloslava echová Miloslava echová (Gar.) German for Advanced Students P2 | Z | 2 | 0+2 | Z . | V |
| 04XNP2 | Miloslava echová Miloslava echová (Gar.) | Z | 2 | 0+2 | L | V |
| 04XNP3 | German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XRM1 | Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XRM2 | Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | L | V |
| 04XRM3 | Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XRP1 | Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XRP2 | Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | L | V |
| 04XRP3 | Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XRZ1 | Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+4 | L | V |
| 04XRZ2 | Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+4 | Z | V |
| 04XRZ3 | Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+4 | L | V |
| 04XRZ4 | Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+4 | Z | V |
| 04XRZ5 | Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 2 | 0+4 | L | V |
| 04XSM1 | Spanish for Intermediate Students M1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XSM2 | Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+2 | L | V |
| 04XSM3 | Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XSP1 | Spanish for Advanced Students P1 | 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 | ٧ |
| 04XSZ1 | Spanish for Beginners Z1 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+4 | L | ٧ |
| 04XSZ2 | Spanish for Beginners Students Z2 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 | ٧ |
| 04XSZ4 | Spanish for Beginners Z4 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+4 | Z | ٧ |
| 04XSZ5 | Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 2 | 0+4 | L | ٧ |
| Characteristics of th | e courses of this group of Study Plan: Code=BSPJAZYKYZAP I | Name=BS P j | azyky za | р | | |
| The course is designed for of Reference for Languages professional oral and writte extending the knowledge of | nglish for Intermediate Students M1 students who have successfully completed the full secondary school English language is (CEFR). It provides an introduction into English for Specific and Academic Purposes (in communication situations. Thus it covers topics related to the student's life and needs figrammar issues used in EAP. Inglish for Intermediate Students M2 | ESP, EAP), i.e., i | nto fundame | entals of voca | abulary and | style typical o |
| The AM2 course expects th | e student to have completed the AM1 course. It develops their skills for work with subte | | • | • | ific gramma | ar, functions, |
| and lexical items typical of E revision is included. | SP and EAP (e.g., definition, existence and classification of phenomena, object descript | ions). Part of the o | course is als | o guided writ | ing. If nece | ssary, gramma |
| · · | nglish for Intermediate Students M3 | | | | Z | 2 |
| · | ills that enable students to cope with features typical of professional style. Increasing atte nal texts. Great emphasis is placed on distinguishing different levels of formal and inforn | • | | | - | - |
| equivalents. The course als | o includes studying abstracts and rules for writing them as well as basic rules for preparation | | | | | |
| student's field. | ELC AL LOCAL BA | | | | 7 | |
| · · | nglish for Advanced Students P1 f advanced English, designed for students who have successfully completed the full sec | condary school F | nalish lanau | age course (| Z | 2 the B1 level of |
| | mework of Reference for Languages - CEFR). It provides an introduction into English for | | | _ | | |
| • | cabulary, grammar, and the purpose and style which is typical of academic and profess | • | | | | |
| | d mathematics (STEM) contexts. There is an emphasis on reading material and discuss | | | | | • |
| Full and active participation | is a basic expectation. | | | | | |
| | nglish for Advanced Students P2 | | | | Z | 2 |
| • | students who have successfully completed AP1 and is a continuation of the Advanced | • | | | | |
| • | skills for working with texts relating to science, technology, engineering and mathemating the students academic vocabulary, through exposure to a wide variety of diverse text | | • . | | | |
| | nent to effective academic discourse and communication. There is a specific emphasis of | | _ | | _ | • |
| | s of such data. There is a focus on formal conventions in written communication including | | - | - | _ | |
| | of the purpose and concomitant style which is typical of academic and professional oral | | | - | - | ole materials. |
| | are expected to discuss ideas with colleagues prior to participating in plenary sessions. | Full and active pa | rticipation is | s a basic exp | | |
| | nglish for Advanced Students P3 | | | | Z | 2 |
| | I for students who have successfully completed AP2 and is a continuation of the Advanced | _ | _ | | - | |
| | content covered in both AP1 and AP2, and in terms of the final examinations, provides a nesters. The AP3 course places greater emphasis on student participation, training oral | | | _ | | |
| | in formal discussions. There is also focus on professional written communication in the | | | | | |
| study. For most students thi | s is their third year of studying for their bachelors degree and so there is a commitment to | honing efficient | and effective | language sl | kills with a v | riew to enablin |
| successful communication | in English both in the academic context and in the wider world. Collaborating with collect | agues to enable d | eeper unde | rstanding of | complex ide | eas is a key |
| goal. | | | | | | |
| | zech for Foreigners - Beginners 1 | | | | Z | 2 |
| - | students of the English programme. Students will become acquainted with the main cha | | | _ | | - |
| | l speaking skills. The course focuses on pronunciation exercises, simple social phrases, rs roughly lessons 1-3 of eština Express (Czech Express) by L. Holá and P. Bo ilová. | , and oral and wri | tten commu | nication in th | ie most con | nmon everyda |
| | zech for Foreigners - Beginners 2 | | | | Z | 2 |
| 1 | ication competences acquired in CESZ1 are further developed. Students deepen their | knowledge of the | declension | and coniuga | | |
| | s. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová. | | | | | , p |
| 04XCESZ3 C | zech for Foreigners - Beginners 3 | | | | Z | 2 |
| | s the language and communication competences acquired in the XCESZ1 and XCESZ | 2 courses. The te | aching focus | ses on buildi | ng up basid | vocabulary, |
| • | and deepening grammar, features through practice, as well as introducing the Czech co | | | | | |
| · · · · · | They also practise understanding texts in terms of main ideas or looking for specific deta | ils in texts. The co | ourse covers | roughly less | sons 5-7 in | eština expre |
| 1. | | | | | | |
| | zech for Foreigners - Intermediate 1 | uh form · · · · · · · · · · · · · · · · · | n nn " | | Z | 2 |
| | orrect pronunciation, important morphological phenomena, prepositional phrases, and ve | in iorms as well a | s on extend | ing the stude | nt s vocabl | nary for variou |
| social situations. | zoch for Foreigners - Intermediate 2 | | | | Z | 2 |
| | zech for Foreigners - Intermediate 2 pics covered in CESM1 and is then focused on more difficult grammar phenomena. It p | ractices writing | neaking an | d reading sk | 1 | |
| · · | pics covered in CESM1 and is then locused on more difficult grammar phenomena, it pa abbreviations, abbreviated words, and mathematical terms and formulas. | radious writing, s | rounny, an | a reading SK | o anu udi | แเซ อเนนซีโ |
| | zech for Foreigners - Intermediate 3 | | | | | 2 |

The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and

04XCESM3

lexicology and on developing the student's writing skills.

Czech for Foreigners - Intermediate 3

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).

| · · | German for Intermediate Students M1 | Z | 2 |
|--|--|--|---|
| - | e is to level off the students´skills in the German language. The course focuses on revision of more difficult phenomena an s (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repu | · - | |
| · · | ether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicis | - | |
| terminology. It develops co | ommunication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability. | | |
| | German for Intermediate Students M3 | Z | 2 |
| | er more complex grammatical structures and their application in communication based on technical texts, such as the relatio g of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and | | |
| | ation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system | | |
| | professional discourse (participles, relative clauses). | | |
| | German for Advanced Students P1 | Z | 2 |
| | d grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le | | |
| | n focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for actures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on | | • |
| i.e., telephoning. | | ,, | , |
| | German for Advanced Students P2 | Z | 2 |
| - | students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while exten- | | |
| | uces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). | a practising formal | communication, |
| | German for Advanced Students P3 | Z | 2 |
| | main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a vi | ariety of less com | |
| | accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the variations are considered as a subtechnical text of the variations are conside | | |
| | g, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use ocess 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 Germ | | ne course also me | iddes translation |
| 04XRM1 F | Russian for Intermediate Students M1 | Z | 2 |
| _ | r students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphal | | • |
| · · | nunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask | | - |
| _ | nar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievemen e course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. | t level of the RZZ | course. The |
| | Russian for Intermediate Students M2 | Z | 2 |
| The course is based on th | ne RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable. | | |
| | Russian for Intermediate Students M3 | Z | 2 |
| The course develops the k in the timetable. | knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h | lowever, for half of | the time allotted |
| i iii tiie tiiiletable. | | | |
| | Russian for Advanced Students P1 | 7 | 2 |
| 04XRP1 F | Russian for Advanced Students P1 t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr | Z acticing more diffi | 2 cult grammar |
| 04XRP1 F The entrance requirement | | 1 | |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 | acticing more diffi | cult grammar |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, | acticing more diffi | cult grammar |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R structures). Stress is put of | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, on independent oral and written communication. | acticing more diffi Z verb aspects, spe | cult grammar 2 ecific syntactic |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R structures). Stress is put course of the structures of the structure of th | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, pr the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, | Z verb aspects, spe | cult grammar 2 ccific syntactic |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R structures). Stress is put course is based on R course is based on R courses require good prevents. | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, presented fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, on independent oral and written communication. Russian for Advanced Students P3 P2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra vious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). | Z verb aspects, spe Z sing, translation). | 2 ecific syntactic 2 The RP1 - RP3 elop and expand |
| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R structures). Stress is put course is based on R course is based on R courses require good preventese skills. Further study | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, presented fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, on independent oral and written communication. Russian for Advanced Students P3 P2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra vious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). It is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and | Z verb aspects, spe Z sing, translation). The courses devid written interpreta | 2 ecific syntactic 2 The RP1 - RP3 elop and expandution). Students |
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| 04XRP1 F The entrance requirement structures, understanding 04XRP2 F The course is based on R structures). Stress is put of 04XRP3 F The course is based on R courses require good previous from these skills. Further study develop their subtechnical technical topics. 04XRZ1 F The course represents the first Russian alphabet (for a short text with marked structures). | to the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, presented fundamentals of technical language and training writing skills. Russian for Advanced Students P2 P1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, on independent oral and written communication. Russian for Advanced Students P3 P2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra vious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). It is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and I vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write restricted for Beginners Z1 First stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speakstress, understand its contents and summarize it. | Z verb aspects, spe Z sing, translation). The courses develor witten interpreta accurately and wi Z sian. Thus it begin king). Students wil | 2 cific syntactic 2 The RP1 - RP3 clop and expand ation). Students th confidence on 2 s with mastering the able to read |
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| 04XSM1 | Spanish for Intermediate Students M1 | Z | 2 |
|---|---|---|---|
| The course is design | ned for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-sem | nester course deve | lops standard |
| vocabulary and pays | s attention to further grammar topics, to written and oral communication on a given everyday or easy subtechnical topic, for which | the students are to | ained by reading |
| texts or listening to t | them. | | |
| 04XSM2 | Spanish for Intermediate Students M3 | Z | 2 |
| The course develop | s the students' knowledge from the previous course (XSM1). Students are gradually acquainted with fundamentals of Spanish | for specific purpos | es 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 | re supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of aca | demic style. They v | will be competent |
| enough to use the Ir | nternet 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 prog | gramme, 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 communica | ation. 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 and | syntax and focuses | on independent |
| written communicati | ion. | | |
| 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. It is | s focused on writte | n communication |
| | | | |
| based on what stude | ents will need in their career. | | |
| based on what stude | | Z | 2 |
| 04XSZ1 | ents will need in their career. Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fun | _ | 2 |
| 04XSZ1 Course XSZ1 is the | Spanish for Beginners Z1 | damental gramma | 2 r structures and |
| 04XSZ1 Course XSZ1 is the | Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fun | damental gramma | 2 r structures and |
| 04XSZ1 Course XSZ1 is the will be able to comm 04XSZ2 | Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fununicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Span | damental gramma ish and will develo | 2 r structures and up it. |
| 04XSZ1 Course XSZ1 is the will be able to comm 04XSZ2 Course XSZ2 is bas | Spanish for Beginners Z1 first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fununicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish for Beginners Students Z2 | damental gramma hish and will develo Z s and lexis will be o | 2 r structures and op it. 2 chosen so as to |
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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 |
| The course introd | uces the fundamental areas of mathematics essential for university studies and practical applications. It covers sets, logic, proofs, fu | nctions, derivatives | , integrals, |
| | analytic geometry, combinatorics, and probability, with emphasis on understanding principles, rigor, and problem solving. | | |
| 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 are | integral part of the | e course. |
| 00UPRA | Introduction to Law | Z | 1 |
| 00UPSY | Introduction to Psychology | Z | 1 |
| 01ALGE | Algebra | Z,ZK | 6 |
| The lecture discuss | ses some parts of set theory, e.g. equivalence and subvalence of sets, the Cantor-Bernstein theorem, the axiom of choice and equiva | alent statements. F | urthermore, |
| standard algebra | aic structures are discussed: semigroups, monoids, groups, rings, integral domains, principal ideal domains, fields, lattices. Independ | lent chapters are d | evoted to |
| | divisibility in integral domains and to finite fields. | | |
| 01ANA3 | Mathematical Analysis A 3 | Z,ZK | 9 |
| | Function sequences and series, introduction to topology and metric spaces, differential calculus of functions of several variations. | oles. | |
| 01ANA4 | Mathematical Analysis A 4 | Z,ZK | 9 |
| | Inverse and implicit functions, constrained extrema, measure and integration theory, contour and surface integrals. | | |

| 01BASE | Bachelor Seminar | Z | 1 |
|--|--|--|--|
| In the first part of th | ne seminar, students familiarize themselves with the general principles of publishing and presenting scientific work and the formal requ | irements for bache | elors degree |
| projects at the fact | ulty. The second part is designed as a practical training for the defense of the bachelors degree project. The students give oral presen | tations of the curr | ent state of |
| the research results | s achieved during the work on their projects. Each presentation is followed by a discussion on scientific matters as well as on the possibi | lities of improving | the students |
| | performance. | | _ |
| 01BPMI1 | Bachelor project 1 | . Z | 5 |
| The bachelor project | ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the projregular meetings and discussions. | ect supervisor duri | ng common |
| 01BPMI2 | | Z | 10 |
| | Bachelor project 2 ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj | - | - |
| The bacheler project | regular meetings and discussions. | oor oupor vidor dan | ng common |
| 01DEM | History of Mathematics | Z | 1 |
| | e form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gi | - | aroius topics |
| | from the history of mathematics. | | • |
| 01DIFR | Differential Equations | Z,ZK | 4 |
| The course contain | is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the | e existence theory | , solution of |
| | linear types of equations and introduction in the theory of boundary-value problems. | | |
| 01DIM1 | Discrete Mathematics 1 | Z | 2 |
| | The seminar is devoted to elementary number theory and applications. In addition to the material discussed, it includes individual prob | | |
| 01DIM2 | Discrete Mathematics 2 | Z | 2 |
| | The seminar is devoted to recurrence relations. It includes individual problem solving. | | |
| 01DIMA3 | Discrete Mathematics 3 | ZK | 2 |
| Students get to kno | ow problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solving | g of ones own cho | ice from the |
| 0.454510 | given literature. | 7.71 | |
| 01FAN2 | Functional analysis 2 | Z,ZK | 5 |
| I ne course aims | to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed op Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators. | perators and their s | spectrum, |
| 01FANA1 | Functional Analysis 1 | Z,ZK | 5 |
| 01FKO | · | Z,ZK | 3 |
| | Functions of Complex Variable rom outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are ex | | _ |
| | on and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve, Cauch | - | |
| · · | holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy esti | - | |
| , | theorem. | , | , |
| 01JEPR | Simple Compilers | Z | 2 |
| | Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection. | | l |
| 01LAL | Linear Algebra 1 | Z | _ |
| | Linear Algebra 1 | _ | 2 |
| | l Elinear Algebra 1 Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of li | - | l |
| 1. Vector space. 2 | Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of litheorem. | near mappings. 7. | l |
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| 01LAL2 Outline: 1. Invers | Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear Melorem. Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matri | Z,ZK d quadratic forms. | Frobenius 4 5. Scalar calculation |
| 01LAL2 Outline: 1. Invers | Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear heavy theorem. Linear Algebra 2 se matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian and gonality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matrices. 3. Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonality. | Z,ZK d quadratic forms. | Frobenius 4 5. Scalar calculation |
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| at FNSPE. The algo | orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic | cal concepts are de | emonstrated |
|---|---|---------------------------|-----------------|
| 0400000 | using Blender, an open-source 3D modeling and rendering software instrument. | 1/7 | |
| 01PRSTB | Probability and Statistics B | KZ | 4 (almanara) |
| | e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and one as random variable, distribution function of random variable are treated and basic limit the | • | • |
| | e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing | | and proved. |
| 01PSL | LaTeX - Publication Instrument | Z | 2 |
| 011 02 | The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX | _ | _ |
| 01PSR | Principles of Statistical Decision Making | ZK | 2 |
| | ted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual co | l | |
| , | properties and applicability. | , | |
| 01PW | Windows Programming | Z | 2 |
| | graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identifica | ı tion and reflection. | |
| 01SAM | Seminar of Applied Mathematics | Z | 2 |
| | and acoustic emission. 2. Machine learning. 3. Traffic flow dynamics. Dynamics of crowd movement. 4. Digital image processing. 5. D | ynamic pricing. 6. | Statistical |
| | predictions in economics, sociology and psychology. 7. Application of random matrix theory. | | |
| 01SITE1 | Computer Networks 1 | Z | 2 |
| Understanding the | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro | tocols, practical ex | ercises with |
| | ations. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authors. | | |
| | actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. | erial control lines, r | |
| 01SITE2 | Computer Networks 2 | Z | 2 |
| _ | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network pro | • | |
| | tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification auth | | |
| | actice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se | | |
| 01SOS1 | Software Seminar 1 | Z | 2 |
| 212222 | Java, Java Beans, Assembly language programming for microprocessors Intel 80x86 | _ | |
| 01SOS2 | Software Seminar 2 | Z | 2 |
| Graphical libraries | GTK+ and Qt. Development of graphical user interface using C and C++ programming languages. Portable applications for Unix like | operating systems | , especially |
| 0400014 | for Linux systems. Portability to Microsoft Windows. | 7 | |
| 01SSM1 | Seminar of Contemporary Mathematics 1 | Z | 2 |
| | r offers a different perspective on areas of mathematics traditionally included in curricula, as well as areas that are not part of the bas | | |
| 01TA | Algebra and Calculus in Applications (CONtinuous) calculus and discrete (discRETE) structures, as called concrete methomatics. Theorems of | ZK | 2 |
| vve iliustrate metric | ods based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems a informatics and they are illustrated on problems from informatics. | ire motivated by pri | Juleille IIOIII |
| 01TKO | Theory of Codes | ZK | 2 |
| UTIKO | Algebraic methods used in error detecting and error correcting codes. | ZK | |
| 01USU | Introduction to Machine Learning | Z,ZK | 4 |
| | rise is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the | | |
| | r analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practic | | |
| | n and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from pi | | |
| 01ZAOS | Introduction to Operating Systems | Z,ZK | 2 |
| | ction to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Me | mory mapped files | |
| 01ZPB1 | Introduction to Computer Security 1 | Z | 2 |
| 1. Designing se | cure systems 2. Secure programming techniques, static code analysis 3. Buffer overflow 4. Securing operation systems 5. Running u | ntrusted code (san | dboxing) |
| 02DEF1 | History of Physics 1 | Z | 2 |
| Physics and its pla | ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo | sophers, Aristotle. | Physics in |
| Helenistic period, | Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, I | Huygens. The birth | of physics |
| | as experimental science. Newton and his work. | | |
| 02DEF2 | History of Physics 2 | Z | 2 |
| · · | f classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E | - | |
| | vanism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann. | | |
| and relativistic p | shysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er | nergy, Elementary | particies, |
| OOFLMA | standard model. The concept of Nature and Universe of today. | 7 71/ | _ |
| 02ELMA | Electricity and Magnetism pulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conc | Z,ZK | 6 |
| _ | Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, RLC circuits. Electromagnetic waves, l | | - |
| 02MECH | Mechanics | Z | 4 |
| | process, physical quantities and units. Kinematics of a particle, basic types of motion and their superposition. Dynamics of a particle, sc | _ | |
| · · · · · · · · · · · · · · · · · · · | notion, motion in a central force field, forces in non-inertial reference frames. Mechanics of a system of particles, two-body problems, | | |
| | of a rigid body, rotation. | | |
| 02MECHZ | Mechanics - Examination | ZK | 2 |
| OZIVILOTIZ | The content of the subject is the examination according to the plan of studies. | | _ |
| 02TEF1 | Theoretical Physics 1 | Z,ZK | 4 |
| | troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalisms | | l |
| | dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary | | |
| · · | on of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles | • | - |
| | the first part of the course of classical theoretical physics (02TEF1, 02TEF2). | | |
| 02TEF2 | Theoretical Physics 2 | Z,ZK | 4 |
| | isformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and | | - |
| Minkowski space-ti | me. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electron | nagnetic radiation | in 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 thermodynamic nical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity distr | | |
| 02VOAF | | | 6 |
| | Waves, Optics and Atomic Physics a in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarizat | Z,ZK | - |
| | ometrical optics. Introduction to quantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Brog | | |
| | equation, stationary states and spectra of finite systems. | y | J - |
| 04AKS | English Conversation | Z | 1 |
| | evelop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral communicat | | |
| • | or various communication situations and will master their communication strategy. They will also practise their listening skills in order to discussions. The student will be trained to express their ideas clearly and according to current English usage, and become a more conf | | d participate |
| 04XAM1 | English for Intermediate Students M1 | Z | 2 |
| he course is desi f Reference for La | gned for students who have successfully completed the full secondary school English language course at least at the A2 level of the Coanguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of vand written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical inte | ocabulary and st | tyle typical o |
| orolessional oral a | extending the knowledge of grammar issues used in EAP. | rest. Attention is | also palu to |
| 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 | | |
| nd lexical items ty | pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided revision is included. | writing. If necessa | ary, gramma |
| 04XAM3 | English for Intermediate Students M3 | Z | 2 |
| | 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 | ourse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on student's field. | a chosen topic i | related to the |
| 04XAMZK | English for Intermediate Students Examination | ZK | 4 |
| - | tent is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts | | 1 |
| | 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 at the | he level of advanced English, designed for students who have successfully completed the full secondary school English language cour | rse (at least to the | e B1 level o |
| | opean Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (E | | |
| | tals of vocabulary, grammar, and the purpose and style which is typical of academic and professional oral and written communication s | | • |
| echnology, engine | eering and mathematics (STEM) contexts. There is an emphasis on reading material and discussing ideas with colleagues prior to part | | |
| | | cicipating in piena | ary sessions |
| 048400 | Full and active participation is a basic expectation. | | |
| 04XAP2 | Full and active participation is a basic expectation. English for Advanced Students P2 | Z | 2 |
| The course is des | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course build: | Z s on content cove | 2 ered in AP1, |
| The course is des | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wr | Z s on content coveritten communica | 2 ered in AP1 tion in STEM |
| The course is des nus extending the contexts. The cou | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course build: students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wr rse extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key asp | Z s on content covi itten communica pects of gramma | 2 ered in AP1 tion in STEI r (referred to |
| The course is des nus extending the contexts. The cour s Language Topic | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wrise extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the state. | Z s on content coviiten communica pects of grammal ynthesizing of co | 2 ered in AP1 tion in STEM r (referred to mprehensiv |
| The course is des nus extending the contexts. The cour s Language Topic nd nuanced interp | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course build: students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wr rse extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key asp | Z s on content covi itten communica pects of gramman ynthesizing of co course marking a | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesion |
| The course is des nus extending the contexts. The cour s Language Topic nd nuanced interp As in AP1, consid | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wrise extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the suppretations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, discourse in the participation is a basic expectation. | Z s on content coviitten communica pects of gramman ynthesizing of co course marking a ad through sampl | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesior e materials |
| The course is destrus extending the contexts. The course Language Topic and nuanced interpas in AP1, consider | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and write extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the suppretations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, discourse in the purpose and concomitant style which is typical of academic and professional oral and written communication is explored. | Z s on content coviitten communica pects of gramman ynthesizing of co course marking a ad through sampl | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesior e materials |
| The course is designed extending the contexts. The course Language Topic and nuanced interpas in AP1, consider And once 04XAP3 | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wrise extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the supertations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, discontent of the purpose and concomitant style which is typical of academic and professional oral and written communication is explored again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is English for Advanced Students P3 designed for students who have successfully completed AP2 and is a continuation of the Advanced English course leading to a zápo et a | Z s on content cove itten communica pects of grammal ynthesizing of co course marking a ad through sampl a basic expecta Z nd a final graded | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesion e materials tion. 2 examination |
| The course is destrus extending the contexts. The course Language Topic and nuanced interpass in AP1, considered AP3 course is the AP3 course between the course is the course is the course is the AP3 course between the course is the course is the course is the course in the course is the course in the cour | Full and active participation is a basic expectation. English for Advanced Students P2 isigned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds a students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wr rise extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the superetations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, disconservations of the purpose and concomitant style which is typical of academic and professional oral and written communication is explored again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is English for Advanced Students P3 designed for students who have successfully completed AP2 and is a continuation of the Advanced English course leading to a zápo et a wilds on content covered in both AP1 and AP2, and in terms of the final examinations, provides a summative assessment of the knowled. | Z s on content covered titten communication communication content covered to the content of the covered to the | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesior e materials tion. 2 examinatior cquired ove |
| The course is destrus extending the contexts. The course Language Topic and nuanced interpass in AP1, considered AP3 course is the AP3 course but the course of the | Full and active participation is a basic expectation. English for Advanced Students P2 identifying students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course builds a students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and writes extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the superetations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, disconserved in the purpose and concomitant style which is typical of academic and professional oral and written communication is explored again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is a English for Advanced Students P3 designed for students who have successfully completed AP2 and is a continuation of the Advanced English course leading to a zápo et a wilds on content covered in both AP1 and AP2, and in terms of the final examinations, provides a summative assessment of the knowled three semesters. The AP3 course places greater emphasis on student participation, training oral communication skills, particularly will be a participation of the Advanced English course leading to a zápo et a wilds on content covered in both AP1 and AP2, and in terms of the final examinations, provides a summative assessment of the knowled three semesters. The AP3 course places greater emphasis on student participation, training oral communication skills, particularly will applied to the participation of the Advanced English course leading to a particularly will applied the participation of the Advanced English course leading to a particularly will applied to the participation of the Advanced Engl | Z s on content cover itten communication of grammal ynthesizing of cocourse marking a sed through sample a basic expectation Z Ind a final graded edge and skills a hen expressing a | 2 ered in AP1 tion in STEI r (referred to mprehensiv nd cohesion e materials tion. 2 examination cquired ove an opinion, |
| The course is destrus extending the contexts. The course Language Topic and nuanced interparts in AP1, considered AP3 course is the AP3 course but the course of the greement, and obtudy. For most stu | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course build students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and writes extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects), pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the substitutions of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, discourse and concomitant style which is typical of academic and professional oral and written communication is explored again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is a English for Advanced Students P3 designed for students who have successfully completed AP2 and is a continuation of the Advanced English course leading to a zápo et a suilds on content covered in both AP1 and AP2, and in terms of the final examinations, provides a summative assessment of the knowled three semesters. The AP3 course places greater emphasis on student participation, training oral communication skills, particularly we objections in formal discussions. There is also focus on professional written communication in the context of applying for work placement in the students this is their third year of studying for their bachelors degree and so there is a commitment to honing efficient and effective language nunication in English both in the academic context and in the wider world. Collaborating with colleagues to enable deeper understanding nunication in English both in the academic context and in the wider world. Collaborating with colleagues to enable deeper understanding nunication in English both in th | Z s on content coviitten communica pects of grammar ynthesizing of co course marking a at through sampl a basic expecta Z nd a final graded edge and skills a hen expressing a s and opportuniti e skills with a vier | 2 ered in AP1 tion in STEM r (referred to mprehensiv nd cohesion e materials. tion. 2 examination cquired ove an opinion, es for furthe w to enablin |
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| he course is des us extending the contexts. The course Language Topic and nuanced interpas in AP1, consider AP3 course is the AP3 course but the course of the greement, and objects of the course for the course of the course communication. | Full and active participation is a basic expectation. English for Advanced Students P2 igned for students who have successfully completed AP1 and is a continuation of the Advanced English course. The AP2 course build students skills for working with texts relating to science, technology, engineering and mathematics (STEM), and honing spoken and wrise extends the students academic vocabulary, through exposure to a wide variety of diverse texts and broadens knowledge of key aspects, pertinent to effective academic discourse and communication. There is a specific emphasis on responding to graphic data and the suppretations of such data. There is a focus on formal conventions in written communication including sentence and paragraph structure, discourse again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is explored again, students are expected to discuss ideas with colleagues prior to participating in plenary sessions. Full and active participation is english for Advanced Students P3 English for Advanced Students P3 designed for students who have successfully completed AP2 and is a continuation of the Advanced English course leading to a zápo et a muilds on content covered in both AP1 and AP2, and in terms of the final examinations, provides a summative assessment of the knowled three semesters. The AP3 course places greater emphasis on student participation, training oral communication skills, particularly we objections in formal discussions. There is also focus on professional written communication in the context of applying for work placements dents this is their third year of studying for their bachelors degree and so there is a commitment to honing efficient and effective language nunication in English both in the academic context and in the wider world. Collaborating with colleagues to enable deeper understanding goal. English for Advanced Students Examination ent is the examination as given by the study plan. The stude | z s on content coviitten communica pects of gramman ynthesizing of co course marking a at through sampl a basic expecta z nd a final graded edge and skills a hen expressing a s and opportuniti e skills with a vier ng of complex ide ZK lity to apply their | 2 ered in AP1 tion in STE r (referred t mprehensiv nd cohesio e materials tion. 2 examinatio cquired ove an opinion, es for furthe w to enablir eas is a key 4 knowledge |
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| 04XCESP2 This course extend | | | |
|--|---|--|---|
| THIS COURSE EXTERN | Czech for Foreigners - Advanced 2 s the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and | Z | 2 |
| I Janes Ontollo | emphasis on individual work. | specialist texts plat | sing greater |
| 04XCESP3 | Czech for Foreigners - Advanced 3 | Z | 2 |
| | os the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, a student's project. Writing skills necessary for professional communication are trained. | | tation of the |
| 04XCESPZK | Czech for Foreign Students - Advanced Examination | ZK | . 4 |
| The course conte | nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher. | SP1,2,3 courses an | d can only |
| 04XCESZ1 | Czech for Foreigners - Beginners 1 | Z | 2 |
| | gned for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and g page and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication | · | |
| acquire basic larige | situations. The course roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo ilová. | in the most commo | on everyday |
| 04XCESZ2 | Czech for Foreigners - Beginners 2 | Z | 2 |
| The language and | communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and corbasic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo illová. | njugation system ar | nd practise |
| 04XCESZ3 | Czech for Foreigners - Beginners 3 | Z | 2 |
| | or develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on | building up basic v | ocabulary, |
| | inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce | | |
| frequent types of d | alogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly 1. | lessons 5-7 in es | stina expres |
| 04XCESZZK | Czech for Foreigners Beginners - Examination | ZK | 4 |
| The course conte | nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher. | CESZ1,2,3 course | s and can |
| 04XFM1 | French for Intermediate Students M1 | Z | 2 |
| | ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both v | | |
| | mmunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, syste | • | |
| | rious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor | • | |
| | French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, wo | - | |
| 04XFM2 | French for Intermediate Students M2 | Z | 2 |
| | on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text | | |
| and scientific lar | Iguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French scie scientists, artists and architects. Description of an object, device, shapes, dimensions, material. | nce and technology | y, French |
| 04XFM3 | French for Intermediate Students M3 | 7 | 2 |
| | sed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (sub | ordinate and infinit | ive clauses. |
| | on compared topoca). That compare Ctudente server a militar server which will 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | , |
| | res, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class | | ked to the |
| | ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work | compiled from Fre | ked to the |
| and one | ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work a sown knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi | compiled from Fre on and coherence. | ked to the |
| and one | ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work | compiled from Fre on and coherence. | ked to the nch articles |
| and one 04XFMZK The content is the | ture specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work e's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesi French for Intermediate Students Examination e examination as given by the study programme. The whole French programme is ended with an examination covering the contents o consists of a written and oral part and is organized according to Examination Instructions, a document available on the web | compiled from Fre on and coherence. ZK f FM1-FM3. The ex | ked to the nch articles 4 amination |
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| 04XFZ3 | | | |
|--|--|--|--|
| | French for Beginners Z3 | Z | 2 |
| | upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pra | | ١ . |
| ropics, functions | and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for info pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. | ormation and loud a | as part or |
| 04XFZ4 | French for Beginners Z4 | 7 | 2 |
| - | up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The cor | ntents is roughly co | - 1 |
| lessons 19 - 23 of th | te textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lecture | e notes French for E | ngineering |
| Students of FJFI. | The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping | - | sity in our |
| | country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, interne | _ | |
| 04XFZ5 | French for Beginners Z5 | Z | 2 |
| • | ed in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pr is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. To | = | |
| J | of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate class) | | |
| , | subjunctive clauses, gerund, passive. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , |
| 04XFZZK | French for Beginners Examination | ZK | 3 |
| The content is the | examination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The examination | ation is ruled by the | document |
| | Instruction for examination. Its content covers the levels FZ1 - FZ5. | | |
| 04XNM1 | German for Intermediate Students M1 | Z | 2 |
| · · · · · · · · · · · · · · · · · · · | course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and st | | |
| | processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Repurues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists | | |
| | terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and unders | | |
| 04XNM2 | German for Intermediate Students M2 | Z | 2 |
| The course introduc | ses other more complex grammatical structures and their application in communication based on technical texts, such as the relation be | etween technology a | and society, |
| | eginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and of | • | |
| practise reading for | information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systemati- phenomena important for professional discourse (participles, relative clauses). | cally revises other g | rammatical |
| 04XNM3 | German for Intermediate Students M3 | 7 | 2 |
| | ses other more complex grammatical structures and their application in communication based on technical texts, such as the relation be | _ | _ |
| | eginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and | | - 1 |
| 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 |
| 0.43/11.471/ | phenomena important for professional discourse (participles, relative clauses). | 71/ | |
| 04XNMZK | German for Intermediate Students Examination is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination of the exam | ZK | 4 rts - written |
| | ver 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. | | |
| 04XNP1 | German for Advanced Students P1 | Z | 2 |
| | es good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be level | | |
| | e is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for de Har structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on prac | | aevelops |
| more dimedit gramm | iai structures necessary for understanding a subtechnical text (passive voice, participles, participles it uctures) and it also focuses on prac | ctical avaryday comi | munication |
| | i.e., telephoning. | ctical everyday com | munication, |
| 04XNP2 | i.e., telephoning. German for Advanced Students P2 | ctical everyday com | munication, |
| | | Z | 2 |
| The course develop vocabulary range. It | German for Advanced Students P2 s the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pra | Z their general and sactising formal comm | 2 ubtechnical |
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|--------------------------|--|--------------------------|-------------------|
| 04XRP2 | Russian for Advanced Students P2 ed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve | Z rh aspects, specifi | 2 c syntactic |
| | structures). Stress is put on independent oral and written communication. | αυρυσιο, ορσοπ | o oymadiid |
| 04XRP3 | Russian for Advanced Students P3 | Z | 2 |
| | d on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing | | |
| | od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The Ir study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and wr | • | |
| | chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately be accurately and practice quick and correct communication in professional situations. They will be able to both speak write accurately accuratel | | |
| • | technical topics. | | |
| 04XRPZK | Russian for Advanced Students Examination | ZK | 4 |
| | t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled ents are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instr | | |
| 04XRZ1 | Russian for Beginners Z1 | Z | 2 |
| | nts the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian | _ | |
| the Russian alphab | et (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking) | . Students will be | able to read |
| 241/572 | a short text with marked stress, understand its contents and summarize it. | _ | |
| 04XRZ2 | Russian for Beginners Z2 | Z chnical toyte Stud | 2 |
| | ter of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte e using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also | | |
| | master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in | • | |
| 04XRZ3 | Russian for Beginners Z3 | Z | 2 |
| | d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training | | _ |
| and listening) and | d 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 |
| 04XRZ4 | understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. Russian for Beginners Z4 | 7 | 2 |
| | d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a c | _ | |
| words, oral comm | unication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs | , differences in ver | b patterns |
| | dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), a | • | |
| communication of | n more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g. forms, look up the information from the timetable, learn about Russian holidays and typical meals. | , Siberia), learn ho | w to fill in |
| 04XRZ5 | Russian for Beginners Z5 | Z | 2 |
| | the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understanding | _ | |
| | specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Comm | | |
| | tudying grammar is based on professional and technical texts and only includes items typically used in professional communication (| | participles, |
| | e voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po | | |
| 04XRZZK | Russian for Beginners Examination t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled | ZK | 3 ired in R71 |
| | ents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr | - | |
| 04XSM1 | Spanish for Intermediate Students M1 | Z | 2 |
| | igned for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest | | |
| vocabulary and pay | s attention to further grammar topics, to written and oral communication on a given everyday or easy subtechnical topic, for which the s | tudents are trained | d by reading |
| 04XSM2 | texts or listening to them. Spanish for Intermediate Students M3 | Z | 2 |
| | s the students' knowledge from the previous course (XSM1). Students are gradually acquainted with fundamentals of Spanish for sp | | |
| | able to work with specialized texts on the Internet. | , . , | |
| 04XSM3 | Spanish for Intermediate Students M3 | Z | 2 |
| | are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic | | - |
| 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 shor final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex- | | maries. The |
| 04XSMZK | Spanish for Intermediate Students Examination | ZK | 4 |
| | ent is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the wri | | |
| | obtained non-graded assessment for course XSM3. Oral examination follows the written part. | | |
| 04XSP1 | Spanish for Advanced Students P1 | Z | 2 |
| Course concentrate | es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. | Course prerequisi | tes: level B2 |
| 04XSP2 | of CEFR. Spanish for Advanced Students P2 | Z | 2 |
| | spanish for Advanced Students F2 second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta | | |
| | written communication. | | |
| 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. It is focus | sed on written con | nmunication |
| 0.4)/0.07// | based on what students will need in their career. | 717 | |
| 04XSPZK The course conte | Spanish for Advanced Students Examination nt is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite | ZK for admission to d | 4 oral part is |
| | ng passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan | | rai part is |
| 04XSZ1 | Spanish for Beginners Z1 | Z | 2 |
| | e first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam | ental grammar stru | |
| | o communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa | | |
| 04XSZ2 | Spanish for Beginners Students Z2 | Z | 2 |
| | ised on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and derstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a | | |
| CHADIC THEIH TO UIT | derstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries a Republic. Realia of Spanish-speaking countries are also included. | na outers such dS | are ozecii |
| | | | |

| 04XSZ3 | | | 1 |
|--|--|--|--|
| | Spanish for Beginners Z3 | Z | 2 |
| | upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include | | |
| | of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including t | | • • |
| inaetiniao, preterito | imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics. through targeted reading and listening activities. | Students are prep | ared for this |
| 04XSZ4 | | Z | 2 |
| | Spanish for Beginners Z4 d on course XSZ3. It develops the student´s vocabulary and extends the knowledge of the culture and social customs of the Spanish | _ | |
| | tion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the | | |
| | o written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listening | - | abjuriouvo), |
| 04XSZ5 | Spanish for Beginners Z5 | Z | 2 |
| | are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo | _ | II. |
| | part, the general Spanish course based on the course book will end with a written and oral examination. | | |
| 04XSZZK | Spanish for Beginners Examination | ZK | 3 |
| | is the examination as given by the study plan. Examination consists of two parts: written and oral. Students can register for oral examin | | |
| | the written examination test. | | |
| 12POAL | Computer Algebra | KZ | 2 |
| isp, representation | of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, si | implification, grea | test commoi |
| divisor, resultant, d | derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subst | itution and patteri | n matching, |
| lgebraic programm | ing, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyr | na, Mathematica) | , miniproject |
| 12UNXAP | Introduction to UNIX | Z | 2 |
| | perating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface | | |
| | ing systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with | | , |
| · · | er (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard too | · · | |
| computer networks | s. Global computer networks. Addresses and protocols TCP/IP. Network configutation of a computer. Network services: hardware sha | aring, mail, scp, e | tc. Network |
| | applications | | |
| 12UVP | Introduction to Scientific Computing | Z | 2 |
| Practically oriented | Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with so | ome basic tools fo | ort scientific |
| 10751.1 | and technicval computing, data analysis, data visualisation and algorithm development. | 7 71/ | |
| 12ZEL1 | Basic Electronics 1 | Z,ZK | 3 |
| | les primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circu | | |
| | e symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient efforts and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient efforts and complex method are explained. | | _ |
| 12ZEL2 | Basic Electronics 2 | Z,ZK | 3 |
| | rs up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic the | _ | |
| 15CH1 | General Chemistry 1 | Z | 3 |
| ine most important | | | |
| | concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical u | se are illustrated | by examples |
| 15€⊔2 | solved in exercises. | | |
| 15CH2 | solved in exercises. General Chemistry 2 | Z,ZK | 3 |
| The subject is the co | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using v | Z,ZK various examples, | 3 the fact that |
| The subject is the co | solved in exercises. General Chemistry 2 | Z,ZK various examples, | 3 the fact tha |
| The subject is the co | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using vertical principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. | Z,ZK /arious examples, illustrated by exar | 3 the fact that |
| The subject is the contract the validity of these | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using very principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are | Z,ZK various examples, illustrated by exar | 3 the fact that apples solved |
| The subject is the continue the validity of these 18INTA The lectures provide | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using verificial processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e | 3 the fact tha mples solved 4 tc.) and they |
| The subject is the continue the validity of these 18INTA The lectures provide | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using a principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications e an overview of modern technologies for the development of web applications. Students will learn basic web languages and concep | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced | 3 the fact tha mples solved 4 tc.) and they |
| The subject is the content of the validity of these 18INTA The lectures provide | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using a principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications e an overview of modern technologies for the development of web applications. Students will learn basic web languages and concepted to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest the simplest the simplest of simplest the simplest the simplest of simplest the simplest of simplest the simplest of simplest simplest the simplest of simplest simplest the simplest of simplest simple | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced | 3 the fact that apples solved 4 ttc.) and the |
| The subject is the content of the validity of these 18INTA The lectures provide will also be introducted. 18NES1 | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using a principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications an overview of modern technologies for the development of web applications. Students will learn basic web languages and concepted to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest the is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced vaScript. KZ | the fact tha mples solved 4 ttc.) and they. The course |
| The subject is the content of the validity of these 18INTA The lectures provide will also be introducted. 18NES1 The aim of the content of | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using various principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications and overview of modern technologies for the development of web applications. Students will learn basic web languages and concepted to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest to is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced vaScript. KZ ter related machin | the fact tha mples solved 4 ttc.) and they. The course |
| The subject is the content of the validity of these 18INTA The lectures provide will also be introduc | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using a principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications an overview of modern technologies for the development of web applications. Students will learn basic web languages and concepted to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest to is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jav Neural Networks 1 urse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and other | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced vaScript. KZ | the fact tha mples solved 4 ttc.) and they. The course |
| The subject is the cone validity of these 18INTA The lectures provide vill also be introducted. 18NES1 The aim of the cone | solved in exercises. General Chemistry 2 ontinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using various principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in exercises. Development of internet applications and overview of modern technologies for the development of web applications. Students will learn basic web languages and concepted to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest to is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Javan Neural Networks 1 urse "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and oth techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. | Z,ZK various examples, illustrated by exar KZ ts (HTML, URL, e o more advanced vaScript. KZ ter related machin | the fact that mples solved 4 ttc.) and the The course 5 te learning |
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