## Study plan

## Name of study plan: Mathematical Engineering - Mathematical Informatics

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: BSPMIMINFAJ1

Name of the group: BS P\_MIBA MINF 1st year

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

Credits in the group: 0 Note on the group:

| Note on the g | •   |            |         |       |          |      |
|---------------|---|------------|---------|-------|----------|------|
| 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 |
| 02YDEF1       | History of Physics 1  | Z          | 2       | 2+0   | Z        | PS   |
| 01YDIM1       | Discrete Mathematics 1 Lubomíra Dvo áková   | Z          | 2       | 2P+0C | Z        | PS   |
| 01YDIM2       | Discrete Mathematics 2 Lubomíra Dvo áková   | Z          | 2       | 2P+0C | L        | PS   |
| 02YELMA       | Electricity and Magnetism   | Z,ZK       | 6       | 4+2   | L        | PS   |
| 01YLAL        | Linear Algebra 1<br>Lubomíra Dvo áková  | Z          | 2       | 2P+2C |          | PS   |
| 01YLALZ       | Linear Algebra 1, exam  Lubomíra Dvo áková  | ZK         | 2       | 0P+0C |          | PS   |
| 01LAL2        | Linear Algebra 2 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)  | Z,ZK       | 4       | 2P+2C |          | PS   |
| 01YMAN        | Calculus 1  | Z          | 4       | 4+4   |          | PS   |
| 01YMANZ       | Calculus 1, exam  | ZK         | 4       | 0P+0C |          | PS   |
| 01YMAN2       | Calculus 2  | Z,ZK       | 8       | 4P+4C |          | PS   |
| 02YMECH       | Mechanics   | Z          | 4       | 4+2   | Z        | PS   |
| 02YMECHZ      | Mechanics - Examination   | ZK         | 2       | -     | Z        | PS   |
| 00YPT         | Orientation Week Petr Ambrož Petr Ambrož (Gar.)   | Z          | 2       | týden | Z        | PS   |
| 18YZALG       | Basics of Algorithmization Miroslav Virius Miroslav Virius (Gar.)   | Z,ZK       | 4       | 2+2   | L        | PS   |
| 18YZPRO       | Basics of Programming Miroslav Virius Miroslav Virius (Gar.)  | Z          | 4       | 4C    | Z        | PS   |

#### Characteristics of the courses of this group of Study Plan: Code=BSPMIMINFAJ1 Name=BS P\_MIBA MINF 1st year

| 02YDEF1                   | History of Physics 1  | Z | 2 |  |  |  |  |
|---------------------------|---|---|---|--|--|--|--|
| Physics and its place in  | nysics and its place in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philosophers, Aristotle. Physics in |   |   |  |  |  |  |
| Helenistic period, Archir | Helenistic period, Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, Huygens. The birth of physics    |   |   |  |  |  |  |
| as experimental science   | experimental science. Newton and his work.  |   |   |  |  |  |  |
| 01YDIM1                   | Discrete Mathematics 1  | Z | 2 |  |  |  |  |
| The seminar is devoted    | to elementary number theory and applications. It includes individual problem solving  |   |   |  |  |  |  |

| 01YDIM2  | Discrete Mathematics 2  | Z  | 2  |
|--|---|--|--|
| The seminar is devot   | red to recurrence relations. It includes individual problem solving.  |  |  |
| 02YELMA  | Electricity and Magnetism   | Z,ZK   | 6  |
| Electric charge, Coul  | omb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits,   | conductivity. Basics of  | of the relativity  |
| theory. Electrodynam   | ic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, Maxwell   | equations  |  |
| 01YLAL   | Linear Algebra 1  | Z  | 2  |
| 1. Vector space. 2. Li   | near dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices  | of linear mappings.  | 7. Frobenius   |
| theorem.   |   |  |  |
| 01YLALZ  | Linear Algebra 1, exam  | ZK   | 2  |
| 01LAL2   | Linear Algebra 2  | Z,ZK   | 4  |
| Outline: 1. Inverse m  | atrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian   | and quadratic forms.   | 5. Scalar  |
| product and orthogo  | nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse  | matrices. 2. Methods   | of calculation   |
| of determinants. 3. C  | alculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogon  | ality. Calculation of or   | thogonal   |
| complements. 6. Geo  | ometry exercises and examples. 7. Adjoint operators.  |  |  |
| 01YMAN   | Calculus 1  | Z  | 4  |
|  |   |  |  |
| Basic calculus (real a   | analysis, functions of one real variable, differential calculus).   |  |  |
|  | analysis, functions of one real variable, differential calculus).  Calculus 1, exam   | ZK   | 4  |
| Basic calculus (real a<br>01YMANZ<br>01YMAN2   |   | ZK<br>Z,ZK   | 4 8  |
| 01YMANZ<br>01YMAN2   | Calculus 1, exam Calculus 2   | Z,ZK   | 8  |
| 01YMANZ<br>01YMAN2<br>1. Continuation of dif   | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolu   | Z,ZK   | 8<br>Invergence 3  |
| 01YMANZ<br>01YMAN2<br>1. Continuation of dif<br>Real and complex po  | Calculus 1, exam Calculus 2   | Z,ZK   | 8<br>Invergence 3  |
| 01YMANZ<br>01YMAN2<br>1. Continuation of dif<br>Real and complex po<br>(Riemann definition)  | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absoluwer series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of   | Z,ZK   | 8<br>Invergence 3  |
| 01YMANZ<br>01YMAN2<br>1. Continuation of dif<br>Real and complex po<br>(Riemann definition),<br>02YMECH  | Calculus 1, exam Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral   | Z,ZK  Ite and conditional co- integrals: primitives, o   | 8 Invergence 3 Idefinite integ   |
| 01YMANZ<br>01YMAN2<br>1. Continuation of dif<br>Real and complex po<br>(Riemann definition),<br>02YMECH<br>ntroduction to physic   | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics   | Z,ZK  Ite and conditional co- integrals: primitives, or  Z  Insional equations of  | 8 anvergence 3 definite integ  |
| 01YMANZ 01YMAN2 1. Continuation of dif Real and complex pc (Riemann definition), 02YMECH ntroduction to physic n central force field,  | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dime  | Z,ZK  Ite and conditional co- integrals: primitives, or  Z  Insional equations of  | 8 anvergence 3 definite integral 4 motion, motion  |
| D1YMANZ D1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), D2YMECH ntroduction to physic n central force field, continuum mechanic   | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid by   | Z,ZK  Ite and conditional co- integrals: primitives, or  Z  Insional equations of  | 8 anvergence 3 definite integ  |
| O1YMANZ O1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), O2YMECH ntroduction to physic n central force field, continuum mechanic O2YMECHZ  | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bes, elasticity, hydrodynamics. Sound.  | Z,ZK ute and conditional co- integrals: primitives, or  Z unsional equations of pody, rotation. Fundar   | 8 Invergence 3 definite integ  4 motion, motionentals of   |
| O1YMANZ O1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), O2YMECH ntroduction to physic n central force field, continuum mechanic O2YMECHZ The content of the su  | Calculus 1, exam  Calculus 2 ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bes, elasticity, hydrodynamics. Sound.  Mechanics - Examination   | Z,ZK ute and conditional co- integrals: primitives, or  Z unsional equations of pody, rotation. Fundar   | 8 Invergence 3 definite integ  4 motion, motionentals of   |
| O1YMANZ O1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), O2YMECH ntroduction to physic n central force field, continuum mechanic O2YMECHZ The content of the st O0YPT  | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid bes, elasticity, hydrodynamics. Sound.  Mechanics - Examination  ubject is the examination according to the plan of studies.   | Z,ZK  Inte and conditional co- integrals: primitives, or  Z Insional equations of body, rotation. Fundar  ZK  Z  Z   | 8 sonvergence 3 definite integ 4 motion, motion mentals of 2   |
| O1YMANZ O1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), O2YMECH ntroduction to physic n central force field, continuum mechanic O2YMECHZ The content of the st O0YPT The preparatory wee  | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid best, elasticity, hydrodynamics. Sound.  Mechanics - Examination  ubject is the examination according to the plan of studies.  Orientation Week  | Z,ZK  Inte and conditional co- integrals: primitives, or  Z Insional equations of body, rotation. Fundar  ZK  Z  Z   | 8 sonvergence 3 definite integ 4 motion, motion mentals of 2   |
| O1YMANZ O1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), O2YMECH ntroduction to physic n central force field, continuum mechanic O2YMECHZ The content of the st O0YPT The preparatory wee irst semester.   | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutive series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid best, elasticity, hydrodynamics. Sound.  Mechanics - Examination  ubject is the examination according to the plan of studies.  Orientation Week  k is intended for incoming bachelor's students. It includes an introduction to the organizational requirements of university studies.  | Z,ZK  Inte and conditional co- integrals: primitives, or  Z Insional equations of body, rotation. Fundar  ZK  Z  Z   | 8 sonvergence 3 definite integ 4 motion, motion mentals of 2   |
| D1YMANZ D1YMAN2 1. Continuation of dif Real and complex po (Riemann definition), D2YMECH ntroduction to physic n central force field, continuum mechanic D2YMECHZ The content of the st D0YPT The preparatory wee irst semester. 18YZALG                                 | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid best, elasticity, hydrodynamics. Sound.  Mechanics - Examination  ubject is the examination according to the plan of studies.  Orientation Week  | Z,ZK  Inte and conditional co- integrals: primitives, or  Z Insional equations of body, rotation. Fundar  ZK  Z  ies and introductory  Z,ZK  | 8 Invergence 3 Idefinite integ  4 Imotion, motionentals of  2 Idectures for the second of the second |
| 01YMANZ 01YMAN2 1. Continuation of dif Real and complex po (Riemann definition), 02YMECH ntroduction to physic in central force field, continuum mechanic 02YMECHZ The content of the st 00YPT The preparatory wee first semester. 18YZALG                               | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutive series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid best, elasticity, hydrodynamics. Sound.  Mechanics - Examination  Abject is the examination according to the plan of studies.  Orientation Week  Is is intended for incoming bachelor's students. It includes an introduction to the organizational requirements of university studing assics of Algorithmization   | Z,ZK  Inte and conditional co- integrals: primitives, or  Z Insional equations of body, rotation. Fundar  ZK  Z  ies and introductory  Z,ZK  | 8 Invergence 3 Idefinite integrated A Idefini |
| 01YMANZ 01YMAN2 1. Continuation of dif Real and complex po (Riemann definition), 02YMECH ntroduction to physic in central force field, continuum mechanic 02YMECHZ The content of the su 00YPT The preparatory wee first semester. 18YZALG This course is devote 18YZPRO | Calculus 1, exam  Calculus 2  ferential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolutiver series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of techniques of integration and application of integrals, Generalized Riemann integral  Mechanics  s, physical quantities and units. Particle kinematics, basic types of motion and their superposition. Particle dynamics, one-dime forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics of rigid be s, elasticity, hydrodynamics. Sound.  Mechanics - Examination  ubject is the examination according to the plan of studies.  Orientation Week  k is intended for incoming bachelor's students. It includes an introduction to the organizational requirements of university studed to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of | Z,ZK  Inte and conditional co- integrals: primitives, or  I Z Insional equations of body, rotation. Fundar  ZK  Z Ites and introductory  Z,ZK Ithe algorithm completing the | 8 Invergence 3 Idefinite integ  4 Imotion, motionentals of  2 Idectures for the sexity.  4   |

Code of the group: BSPMIMINFAJ2

Name of the group: BS P\_MIBA MINF 2nd year

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

Credits in the group: 0

| Note on the g | ioup.   |            |         |       |          |      |
|---------------|---|------------|---------|-------|----------|------|
| Code          | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| 01TA          | Algebra and Calculus in Applications Lubomíra Dvo áková, Edita Pelantová Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)                                     | ZK         | 2       | 2P+0C |          | PS   |
| 01YDIFR       | Differential Equations  Michal Beneš  | 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 Volec Jan Volec (Gar.)   | Z,ZK       | 3       | 2+1   | Z        | PS   |
| 01YANA3       | Mathematical Analysis A 3   | Z,ZK       | 9       | 4P+4C |          | PS   |
| 01YANA4       | Mathematical Analysis A 4   | Z,ZK       | 9       | 4P+4C |          | PS   |
| 01YNMA1       | Numerical Mathematics 1 Tomáš Oberhuber   | ZK         | 4       | 4+0   |          | PS   |
| 18YPRC1       | Programming in C++ 1 Miroslav Virius Miroslav Virius (Gar.)   | Z          | 4       | 2+2   | Z        | PS   |
| 18YPRC2       | Programming in C++ 2 Miroslav Virius Miroslav Virius (Gar.)   | KZ         | 4       | 2+2   | L        | PS   |
| 02YVOAF       | Waves, Optics and Atomic Physics  | Z,ZK       | 6       | 4+2   | Z        | PS   |

Characteristics of the courses of this group of Study Plan: Code=BSPMIMINFAJ2 Name=BS P\_MIBA MINF 2nd year

O1TA Algebra and Calculus in Applications ZK 2
We illustrate methods based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems are motivated by problems from informatics and they are illustrated on problems from informatics.

| 04)/DIED                 | True e la c   | 7.71                   |                   |
|--------------------------|---|------------------------|-------------------|
| 01YDIFR                  | Differential Equations  | Z,ZK                   | 4                 |
|                          | ntroduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basic | s of the existence the | eory, solution of |
| linear types of equation | ons and introduction in the theory of boundary-value problems.  |                        |                   |
| 01DIMA3                  | Discrete Mathematics 3  | ZK                     | 2                 |
| Students get to know     | problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problems          | solving of ones own o  | choice from the   |
| given literature.        |   |                        |                   |
| 01LIP                    | Linear Programming  | Z,ZK                   | 3                 |
| We study special pro     | plems about constrained extremal problems for multivariable functions, where the function is linear and the constraints are giv     | en by linear equation  | ns and/or linear  |
| inequalities.            |   |                        |                   |
| 01YANA3                  | Mathematical Analysis A 3   | Z,ZK                   | 9                 |
| Function sequences       | and series, introduction to topology and metric spaces, differential calculus of functions of several variables.                    |                        |                   |
| 01YANA4                  | Mathematical Analysis A 4   | Z,ZK                   | 9                 |
| Inverse and implicit for | inctions, constrained extrema, measure and integration theory, contour and surface integrals.                                       |                        |                   |
| 01YNMA1                  | Numerical Mathematics 1   | ZK                     | 4                 |
| The course introduce     | s to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a g        | ood understanding o    | of the root of    |
| theoretical methods.     |   |                        |                   |
| 18YPRC1                  | Programming in C++ 1  | Z                      | 4                 |
| This course covers m     | ainly the C programming language and non-object oriented features of the C++ language.  |                        |                   |
| 18YPRC2                  | Programming in C++ 2  | KZ                     | 4                 |
| This course covers th    | e object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Templa               | ate Library.           |                   |
| 02YVOAF                  | Waves, Optics and Atomic Physics  | Z,ZK                   | 6                 |
| Wave phenomena in        | mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: pola            | rization, interference | , diffraction,    |
| coherence. Geometri      | cal optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de E      | Broglie waves,the Sch  | nrodinger         |
| equation, stationary s   | tates and spectra of finite systems.  | •                      | -                 |
|                          |   |                        |                   |

Code of the group: BSPMIMINFAJ3

Name of the group: BS P\_MIBA MINF 3rd year

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

Credits in the group: 0 Note on the group:

| vote on the g | •   |            |         |        | 1        |      |
|---------------|---|------------|---------|--------|----------|------|
| 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   |
| 01YFKO        | Functions of Complex Variable   | 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   |
| 01YPRST       | Probability and Statistics  | Z,ZK       | 4       | 3+1    | Z        | PS   |
| 18YPJ         | Programming in Java<br>Miroslav Virius  | Z,ZK       | 5       | 2P+2C  | Z        | PS   |
| 01YBASE       | Bachelor Seminar Pavel Strachota  | 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 ulík Zden k ulík Zden k ulík (Gar.)   | Z,ZK       | 2       | 2+0    | L        | PS   |

### Characteristics of the courses of this group of Study Plan: Code=BSPMIMINFAJ3 Name=BS P\_MIBA MINF 3rd year

| Characteristics of         | the courses of this group of study Flan. Code=B3FMIMINFA33 Name=B3 F_MIBA MINF 3  | iu yeai              |                  |
|----------------------------|---|----------------------|------------------|
| 01ALGE                     | Algebra   | Z,ZK                 | 6                |
| Firstly, the Peano axiom   | s are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem,   | the axiom of choice  | e and equivalent |
| statements, definition of  | f ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral c | lomains, principal i | ideal domains,   |
| fields, lattices. Independ | dent chapters are devoted to divisibility in integral domains and to finite fields.   |                      |                  |
| 01BPMI1                    | Bachelor project 1  | Z                    | 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 di    | iscussions.   |                      |                  |
| 01BPMI2                    | Bachelor project 2  | Z                    | 10               |
| 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 di    | iscussions.   |                      |                  |

01YFKO **Functions of Complex Variable** The course starts from outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are explained in detail: the derivative of a complex function and the Cauchy-Riemann equations, holomorphic and analytic functions, the index of a point with respect to a closed curve. Cauchy's integral theorem. Morera's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estimates, Laurent series, residue 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 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. Probability and Statistics It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and continuing till the Kolmogorov definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit theorems are stated and proved. On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explained. 18YPJ Programming in Java This course is devoted to the Java platform and to the development of the basic types of applications for this platform. 01YBASE **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 use     | d in error detecting and error correcting codes.   |              |   |
| 01ZAOS                    | Introduction to Operating Systems  | Z,ZK         | 2 |
| Introduction to structure | of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Memory m | apped files. | • |

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: BSSPOLVEDYAJ

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

| 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 |
|--------|---|------------|---------|-------|----------|------|
| 04YAPI | Presentation Course Jana Ková ová   | Z          | 2       | 2S    | Z        | PV   |

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

04YAPI **Presentation Course** Ζ 2

The course will prepare students for presenting issues in their field by mastering the strategies and techniques of oral presentation. The course includes discussions (expressing views, comments, agreement, disagreement). Students will be able to respond to comments on their presentation and answer questions addressed to them after the presentation, which is a skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writing a paper.

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

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

Credits in the group: 0 Note on the group:

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

| 04XAMZK                 | English for Intermediate Students Examination   | ZK                    | 4              |
|-------------------------|---|-----------------------|----------------|
|                         | the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two pa           | 1                     | n) and oral    |
|                         | ent is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three English co     | ,                     | ,              |
| 04XAPZK                 | English for Advanced Students Examination   | ZK                    | 4              |
| The course content is   | ule examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability     | to apply their know   | ledge obtaine  |
| in the three AP course  | es. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from | the student's field   | of study.      |
| 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 oral part covers all the topics of the 0  | 4XCESZ1,2,3 cours     | ses and can    |
| only be taken after su  | ccessful completion of all three courses. Detailed information is to be obtained from the teacher.                                |                       |                |
| 04XCESMZK               | Czech for Intermediate Students Examination   | ZK                    | 4              |
| The course content is   | the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 0  | ESM1,2,3 courses      | and can only   |
| be taken after succes   | sful 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 oral part covers all the topics of the 0  | ESP1,2,3 courses      | and can only   |
| be taken after succes   | sful 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 exa  | mination as given by the study programme. The whole French programme is ended with an examination covering the content            | s of FM1-FM3. The     | examination    |
| consists of a written a | nd oral part and is organized according to Examination Instructions, a document available on the web.                             |                       |                |
| 04XFPZK                 | French for Advanced Students Examination  | ZK                    | 4              |
| The whole French pro    | gram is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral pa       | irt and is organized  | according to   |
| Examination Instruction | ns, 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 exa  | mination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The exa    | mination is ruled by  | the docume     |
| Instruction for examin  | ation. Its content covers the levels FZ1 - FZ5.   |                       |                |
| 04XNMZK                 | German for Intermediate Students Examination  | ZK                    | 4              |
| The course content is   | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat         | ion consisting of two | parts - writte |
| and oral, which cover   | the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asses      | sment. More detaile   | d information  |
| is to be obtained from  | the teacher.  |                       |                |
| 04XNPZK                 | German for Advanced Students Examination  | ZK                    | 4              |
| The course content is   | the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination          | on consisting of two  | parts - writte |
| and oral, which cover   | the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungrace    | led assessment. Mo    | re detailed    |
| information is to be of | tained from the teacher.  |                       |                |

| 04XRMZK                               | Russian for Intermediate Students Examination   | ZK                   | 4               |
|---------------------------------------|---|----------------------|-----------------|
| The course content                    | is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kno       | wledge and skills a  | acquired in RM1 |
| - RM3. Students are                   | eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruction | ctions by the teach  | er.             |
| 04XRPZK                               | Russian for Advanced Students Examination   | ZK                   | 4               |
| The course content                    | is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kno       | wledge and skills a  | acquired in RP1 |
| <ul> <li>RP3. Students are</li> </ul> | eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruc     | tions by the teache  | ∍r.             |
| 04XRZZK                               | Russian for Beginners Examination   | ZK                   | 3               |
| The course content                    | is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the kno       | wledge and skills a  | acquired in RZ1 |
| <ul> <li>RZ5. Students are</li> </ul> | eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instruction | tions by the teache  | r.              |
| 04XSMZK                               | Spanish for Intermediate Students Examination   | ZK                   | 4               |
| The course content                    | is the examination as given by the study plan. XSMZK examination consists of two parts: written and oral; to be eligible for the      | written part, studer | its will have   |
| obtained non-grade                    | d assessment for course XSM3. Oral examination follows the written part.  |                      |                 |
| 04XSPZK                               | Spanish for Advanced Students Examination   | ZK                   | 4               |
| The course content                    | is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequi         | site for admission   | o oral part is  |
| having passed the v                   | vritten test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan of the stu       | ıdent.               |                 |
| 04XSZZK                               | Spanish for Beginners Examination   | ZK                   | 3               |
| The course content                    | is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral    | examination only i   | f he/she has    |

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

The role of the block: V

passed the written examination test.

Code of the group: BSPMIMINFAJV

Name of the group: BS P\_MIBA MINF Optional courses

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

Credits in the group: 0 Note on the group:

|          | Name of the course / Name of the group of courses   |            |         |       |          |      |
|----------|---|------------|---------|-------|----------|------|
| Code     | (in case of groups of courses the list of codes of their members)                           | Completion | Credits | Scope | Semester | Role |
|          | Tutors, authors and guarantors (gar.)   |            |         |       |          |      |
| 02YDEF2  | History of Physics 2  | Z          | 2       | 2P+0C | L        | V    |
| 01DEM    | History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.)                         | Z          | 1       | 0+2   | L        | V    |
| 01YFANA1 | Functional Analysis 1   | Z,ZK       | 5       | 2P+2C |          | V    |
| 01YFAN2  | Functional analysis 2   | Z,ZK       | 5       | 2P+2C |          | V    |
| 01JEPR   | Simple Compilers Zden k ulík Zden k ulík (Gar.)   | Z          | 2       | 2     | L        | ٧    |
| 00YMAM1  | Essentials of High School Course 1  | Z          | 1       | 0+1   | Z        | V    |
| 00MAM2   | Essentials of High School Math Course 2 Lukáš Heriban Lukáš Heriban (Gar.)                  | Z          | 1       | 0+1   |          | ٧    |
| 18YNES1  | Neural Networks 1   | KZ         | 5       | 2P+2C | L        | V    |
| 15YCH1   | General Chemistry 1 Ond ej Holas Petr Distler (Gar.)  | Z          | 3       | 2+1   | Z        | V    |
| 15CH2    | General Chemistry 2 Petr Distler, Václav uba, Ond ej Holas Petr Distler Petr Distler (Gar.) | Z,ZK       | 3       | 2+1   | L        | V    |
| 12YPOAL  | Computer Algebra Ivan Richter Ivan Richter (Gar.)   | KZ         | 2       | 2     | Z        | 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 ulík Zden k ulík (Gar.)                           | Z          | 2       | 2+0   | Z        | V    |
| 01PW     | Windows Programming Zden k ulík Zden k ulík Zden k ulík (Gar.)                              | Z          | 2       | 2+0   | Z        | V    |
| 18YPMTL  | Programming in MATLAB   | KZ         | 4       | 4C    | Z        | V    |
| 18YPW    | Web environment and markup languages  Dana Majerová   | KZ         | 2       | 2C    | Z        | ٧    |
| 01PSL    | LaTeX - Publication Instrument Petr Ambrož Petr Ambrož (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    |

| 02YTEF1  | Theoretical Physics 1 Petr Novotný, Ji í Hrivnák Petr Novotný Ji í Hrivnák (Gar.)      | Z,ZK | 4 | 2+2   | Z | V |
|----------|--|------|---|-------|---|---|
| 02YTEF2  | Theoretical Physics 2 Petr Novotný   | Z,ZK | 4 | 2+2   | L | V |
| 02YTER   | Heat and Molecular Physics   | Z,ZK | 4 | 2+2   | L | V |
| 18YINTA  | Development of internet applications  Dana Majerová Dana Majerová (Gar.)               | KZ   | 4 | 2P+2C | L | V |
| 01USU    | Introduction to Machine Learning Ji í Franc, Jan Flusser Ji í Franc Jan Flusser (Gar.) | Z,ZK | 4 | 2P+2C |   | ٧ |
| 12YUNXAP | Introduction to UNIX Ivan Richter Ivan Richter (Gar.)                                  | Z    | 2 | 1P+1C | L | ٧ |
| 12YUVP   | Introduction to Scientific Computing Ivan Richter Ivan Richter (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 |

Characteristics of the courses of this group of Study Plan: Code=BSPMIMINFAJV Name=BS P\_MIBA MINF Optional courses 02YDEF2 History of Physics 2 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. History of Mathematics The subject has the form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - give their talks on varoius topics from the history of mathematics. 01YFANA1 Functional Analysis 1 Z,ZK 5 01YFAN2 Functional analysis 2 5 The course aims to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed operators and their spectrum, Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators. 01JEPR Simple Compilers Ζ 2 Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection. Ζ 00YMAM1 Essentials of High School Course 1 1 Students are introduced to mathematical concepts and methods used in the introductory physics course. 00MAM2 Z Essentials of High School Math Course 2 1 Review of basics of high school mathematics. 18YNES1 Neural Networks 1 ΚZ 5 The aim of the course "Neural Networks 1" is to acquaint students with basic models of artificial neural networks, algorithms for their learning, and other related machine learning techniques. The goal is to teach students how to apply these models and methods to solve practical tasks. 15YCH1 General Chemistry 1 Ζ The most important concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical use are illustrated by examples solved in exercises 15CH2 General Chemistry 2 Z.ZK The subject is the continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using various examples, the fact that the validity of these principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are illustrated by examples solved in exercises. 12YPOAL Computer Algebra Lisp, representation of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, simplification, greatest common divisor, resultant, derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, substitution and pattern matching, algebraic programming, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyma, Mathematica), miniproject. Principles of Statistical Decision Making 01PSR The subject is devoted to the statistical techniques for general decision procedures based on optimization of suitable stochastic criterion, their mutual comparisons with respect to their properties and applicability. 01PERI Programming of Peripherals Devices 7 2 Memory organization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripherals device drivers 2 01PW Windows Programming Ζ Simple graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identification and reflection. 18YPMTL Programming in MATLAB ΚZ 4 Introducing Matlab environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analysis, statistics, algorithmization and geometric representation of results. 18YPW Web environment and markup languages ΚZ 2 The course introduces students to fundamental principles and best practices for web design with respect to technical functionality, informational value, readability and usability. 01PSL LaTeX - Publication Instrument 2 The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX TV-1 Physical Education Physical Education TV-2 Z 1 TV-3 Physical education Ζ 1 Z TV-4 Physical education 1

02YTEF1 Theoretical Physics 1 The course is an introduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism as well as diferent approaches to description of dynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body problem, the motion of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles of mechanics. The subject is the first part of the course of classical theoretical physics (02TEF1, 02TEF2). 02YTFF2 Theoretical Physics 2 Z,ZK Tensors and transformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and classical field theory in the Minkowski space-time. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electromagnetic radiation in the dipole approximation. 02YTER Heat and Molecular Physics Z,ZK Thermal expansion of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic principle, ideal and real gas, entropy; non-chemical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity distribution, equipartition theorem. 18YINTA Development of internet applications The lectures provide an overview of modern technologies for the development of web applications. Students will learn basic web languages and concepts (HTML, URL, etc.) and they will also be introduced to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest to more advanced. The course is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript. **01USU** Introduction to Machine Learning Z,ZK The aim of this course is to provide a broad introduction to machine learning, data mining and statistical image recognition. Main attention is paid to the basic methods of learning with the teacher, cluster analysis and dimensionality reduction. The lectures and theory explanation is accompanied by examples of experiments and practical applications. Exercises use Python and run in computer labs with emphasis on the implementation and use of machine learning algorithms applied to real data from practical problems. Introduction to UNIX Computer and operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface. Hardware and software. Principles of operating systems. Operating system UNIX. Basic principles, kernel, kernel services. Documentation. File system, file atributes, working with files. Text editors: vi, emacs. Command interpreter (shell) bash and its programming (scripts). Controlling processes, process status, computer load a process priorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networks. Addresses and protocols TCP/IP. Network configuration of a computer. Network services: hardware sharing, mail, scp, etc. Network applications Introduction to Scientific Computing Practically oriented Introduction to scientific computing. Constituent part of the course is realized in computer classroom. Students get acquinted with some basic tools fort scientific and technicval computing, data analysis, data visualisation and algorithm development. 12ZEL1 **Basic Electronics 1** Z,ZK 3

The subject provides primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuit analysis methods for linear circuits include symbolic and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effects inside linear circuits.

The subject follows up with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic themes of logical circuits field.

Z.ZK

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

**Basic Electronics 2** 

Credits in the group: 0

127FL2

| 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)  Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| 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<br>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    |
| 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 | ٧ |
| 04XFP1   | French for Advanced Students P1  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XFP2   | French for Advanced Students P2  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+2 | L | V |
| 04XFP3   | French for Advanded Students P3  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XFZ1   | French for Beginners Z1  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XFZ2   | French for Beginners Z2  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+4 | Z | V |
| 04XFZ3   | French for Beginners Z3  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XFZ4   | French for Beginners Z4  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+4 | Z | V |
| 04XFZ5   | French for Beginners Z5  V ra Šlechtová V ra Šlechtová (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XNM2   | German for Intermediate Students M2   | Z | 2 | 0+2 | L | V |
| 04XNM1   | Miloslava echová Miloslava echová (Gar.)  German for Intermediate Students M1  Miloslava echová Miloslava echová (Gar.) | Z | 2 | 0+2 | Z | V |
| 04XNM3   | German for Intermediate Students M3  Miloslava echová Miloslava echová (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XNP1   | German for Advanced Students P1  Miloslava echová Miloslava echová (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XNP2   | German for Advanced Students P2  Miloslava echová Miloslava echová (Gar.)   | Z | 2 | 0+2 | L | V |
| 04XNP3   | German for Advanced Students P3  Miloslava echová Miloslava echová (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XRM1   | Russian for Intermediate Students M1 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XRM2   | Russian for Intermediate Students M2 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | L | V |
| 04XRM3   | Russian for Intermediate Students M3 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XRP1   | Russian for Advanced Students P1 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XRP2   | Russian for Advanced Students P2 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | L | V |
| 04XRP3   | Russian for Advanced Students P3 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+2 | Z | V |
| 04XRZ1   | Russian for Beginners Z1 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XRZ2   | Russian for Beginners Z2 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+4 | Z | V |
| 04XRZ3   | Russian for Beginners Z3 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XRZ4   | Russian for Beginners Z4 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+4 | Z | V |
| 04XRZ5   | Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.)   | Z | 2 | 0+4 | L | V |
| 04XSM1   | Spanish for Intermediate Students M1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                            | Z | 2 | 0+2 | Z | V |
| 04XSM2   | Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                            | Z | 2 | 0+2 | L | V |
| 04XSM3   | Spanish for Intermediate Students M3  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                            | Z | 2 | 0+2 | Z | V |
| 04XSP1   | Spanish for Advanced Students P1  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                                | Z | 2 | 0+2 | Z | V |
| 04XSP2   | Spanish for Advanced Students P2  Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                                | Z | 2 | 0+2 | L | V |
| 04XSP3   | Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.)                                 | Z | 2 | 0+2 | Z | V |
| 04XSZ1   | Spanish for Beginners Z1  Beatriz Vadillo Gonzalo (Gar.)  Beatriz Vadillo Gonzalo (Gar.)                                | Z | 2 | 0+4 | L | V |
| 04XSZ2   | Spanish for Beginners Students Z2  Beatriz Vadillo Gonzalo (Gar.)  Beatriz Vadillo Gonzalo (Gar.)                       | Z | 2 | 0+4 | Z | V |

| D4XSZ4 Spanish for Beginners 24 Spanish for Beginners 25 Spanish for Intermediate Students M1 To course a designed for success of this group of Study Plan; Code-BSPLAZYKYZAP Name-BS P jazyky zap OXFAMM  | 04XSZ3   | Spanish for Beginners Z3   | Z                       | 2                | 0+4              | L              | V                |
|--|--|--|-------------------------|------------------|------------------|----------------|------------------|
| Spanish for Beginners 25 Beartive Ended Generate Design to March Quality General Visible Generate Design of Study Plan: Code=BSPJAZYKYZAP Name=BS P Jazyky zap  04/AM1   English for Informediate Students M1 English for Informediate Students M2 English for Informediate Students M3 English for Informediate Students M3 English for Informediate Students M3 The course develops the student in two accomplicate that All students in the students in the students in the students of the students in th | 04XSZ4   |  | Z                       | 2                | 0+4              | Z              | V                |
| Characteristics of the courses of this group of Study Plan: Code=BSPJAZYKYZAP Name=BS P Jazyky zap  Z 2 2 3 2 2 3 2 2 3 2 2 3 3 3 4 3 4 4 4 4  | 04XSZ5   | Spanish for Beginners Z5   | Z                       | 2                | 0+4              | L              | V                |
| OAXAM   English for Intermediate Students MI   For some is designed to students with the secretical students of the contract of segment of students with the secretical students of the professional and and written communication students are students as the secretic students with the secretic students and the secretic students are students as the secretic students are students are students as the secretic students are students as the secretic students are students are students as the secretic students are students are students as the secretic students are students are students are students as the secretic students are students as the secretic students are students are students are students as the secretic students are students are students are students are students are students. The secretic students are students are students are students are students are students are students. The secretic students are students are students are students are students are students are students. According to the students are students are students ar | Characteristics of the   |  | Nomo_PS D i             | iozyky za        | <u> </u>         |                |                  |
| The course is designed for alusers who have successfully completed the full accordary school Frigish Inaquage course at least at the AZ level of the Common European Framework of Reference to Language (ECFR), to provide an introduction in Certifian in Sports and Academic Purposes (ESF). EPF), it is, into humbarmatic of successful provides an introduction in Certifian in Certifian (Certifian Institution) and the Certifian Institution of the AZ course explose of subsectivities and the Certifian Institution in the Certifian Institution Institut |  |  | Name=65 P               | azyky za         |                  | Z              | 2                |
| protessions and and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of substemmental interest. Alterdion is also pald to extending the knowless' or granter are worked.  PARAM2  | l l  | <del>-</del>   | e course at least at    | the A2 leve      |                  |                |                  |
| extending the knowledge of guarman issues used in APO  QAXAM2 English for Intermediate Students M2  To ANX course expects the subsent to have completed the AM1 course. It develops their skills for work with subsechnical texts, focusing also more on specific grammar, functions, and least little may be a few of the part of the course is also guided writing. Interessary, grammar incitions is included.  QAXAM3  English for Intermediate Students M3  The course develops the skills that enable students to cope with features spiral of professional skylle. Increasing attention is paid to developing subscribe in a company of the course and the course is also guided writing. Increasing attention is paid to developing subscribe the course in the course and the course is the course and the course and the course in the course i |  |  |                         |                  |                  |                |                  |
| OHAXM2 English for Intermediate Students M2  The AM2 course expects the student is have originated the AM1 course. It develops their states to work with subtentivitial tests, locasing also more on specific grammas, functions, and isolated items bytical of ESP and EAP (e.g., definition, existence and dissipation) of phenomena, object descriptions). Part of the course is also guided writing, if mocessariry, gramma revisions in includes  OHAXM3 English for Intermediate Students M3  English for Advanced Students M3  English for Advanced Students M4  English for Advanced Students P1  The course is developed by a subtract set of their or writing them as well as bear cities for prompting and griving a short presentation of the students is fleat.  OHAXP1 English for Advanced Students P1  The course is developed for subtracts who have successfully correlated the full secondary school English language course (at least the 81 level of the Common European Firement of the Retements P1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1  |  |  | ds as well as topics    | of subtech       | nical interest.  | . Attention is | also paid to     |
| The AMX course expects the subsent to have completed the AMI course. It develops their stalls for voic with substanchical tests, locasing also more on specific garamine, functions, and olocal terms by judical of SP and EAP (g. definition, existence and classification of phenomenas, object descriptions). Put of the course is also guided writing if necessary, garamine reliator is included.  AVAMA    English for Intermediate Students M3   English for intermediate students to cope with features bytical of professional stays. Enrogistical and their appropriate Casch equivalents. The course also includes students are on distinguishing different levels of formal and informal oral and written communication and their appropriate Casch equivalents. The course also includes students are developed to the students and their appropriate Casch equivalents. The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Farmworth of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundamentals of vocabulary, functions are covers productional oral and writher communication on tapicar reliated to the undergraduate S1 de and needs. It develops stills for those predications, grach descriptions, etc.) in also covers productional oral and writher communication on tapicar reliated to the undergraduate S1 de and needs. It develops stills for those predicational writing (writing a CV, lutter of applications) and predictions and present predictions and an intermediate of consent presents and present predictions and an intermediate of the English for Advanced Students SP (an |  |  |                         |                  |                  | 7              |                  |
| and desical terms bytical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptional). Part of the course is also guided writing, if necessary, garman revision is included.  QAXAM3 English for Intermediate Students M3  Z 2  The course develope the skells that rendes tudents to copy and independent understanding of professional twists. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech to extract the skells and the skells and the skells that trades is placed on distinguishing different levels of formal and informal oral and written communication and their appropriate Czech to extract its field.  QAXAP1 English for Advanced Students P1  The course is designed for students who have successfully completed the full secondary school English language course (at least the S1 level of the Common course) of Reference to Languages - CEFRI; I provide an introduction in the English of Specific and Academic Purposes (ESP EAP), i.e., into the fundamentation of vocabulary, functions, garmans, and syste sylical of professional coal and written communication in the English of Specific and Academic Purposes (ESP EAP), i.e., into the fundamentation of vocabulary, functions, garmans, and syste sylical of professional coal and written communication on isbustions (fundamentation of vocabulary) and provides an introduction in the English of Specific and Academic Purposes (ESP EAP), i.e., into the fundamentation of vocabulary functions, garmans, and systems by price of professional coal and written communication in students and seeks and projects, definitions, gards descriptions, excl., it also coordinates on characteristic and and written communication or intermediates and the english professional and executions and professional and executions and professional written and professional and even with professional and even with professional and even with professional interests of characteristics of characteris |  | 9  | ntechnical texts foc    | usina also n     | 1                | _              |                  |
| revision is included.  AVAXM3   English for Intermediate Students M3 The course develope the skills that areable students to cape with features spical of professional atteit. Broadward in the students of the students of the skills that areable students to cape with features spical of professional atteit. Broadward informal oral and written communication and their appropriate Czech equivalents. The course also includes studying abstracts and rules for writing different levels of formal and informal oral and written communication and their appropriate Czech approaches. The course also includes students field.  AVAXP1   English for Advanced Students P1 The course is designed for students with what successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR), it provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamentals of vicabilary, functions, and provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamentals of vicabilary, functions, and provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamentals of vicabilary, functions, and covers professional oral and written communications intuition (fundamentals of trees in mathematics and physics, definitions, garge descriptions, and, in the APP Course is based on APP; thus excelled agreement policies included.  AVAXP2 English for Advanced Students P2 The APP Course is based on APP; that excelled garman stopics, but making vinents to develop understanding of systical entorical truncions for e.g., various byte of descriptions, and, in possible, a case stending the students's skills for working with students's necks of concerning the students's skills for working with students's necks of concerning the students's skills for working and indigental working with and reading of discontinents of colored to a concerning the stud |  |  |                         | -                | -                | -              |                  |
| The course develops the shells that enable students to cape with features spicial of professional style. Increasing attention is paid to developing subtechnical vocabulary and independent understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informat and advinten communication and their appropriate Casch equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to its students fellow. The course is designed for students with the we successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP EAP), Le., into the fundamentals of vaciously functions, grammar, and style pixel of professional and and written communication situations (fundamentals of errain in anthematics and physics, definitions, graph descriptions, etc.) It also covers professional and an written communication on topics related to the undergraduate's life and needs. It develops skills for free professional road and written communication on the students of the substance of the professional texts of chosen branches of science. According the students' needs it connecriates on chosen agrammar topics is included.  404XAP2   English for Advanced Students P2  To AP2 course is based on AP1, thus extending the students' skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According the students' needs it connecriates on chosen actually includes the students' subjects in the students' needs it connecriates on chosen grammar topics, but mainly intentions to develop understanding of syntactic structures and typical metricial functions (e.g., various typic of descriptions, and, if possible, a case study, increasing expenditure), which is needed to the |  |  | . ,                     |                  | J                | Ü              | ,,,              |
| understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal onal and written communication and their appropriate Casch requireds. The course action faculty and strikes and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to it students is feld.  Z 2 The course is designed for students who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages—CERP, litery formations and written communication in topics of Reference for Languages—CERP, litery, functions, grammar, and style typical of professional ural and written communication situations (fundamentals of textual by the professional ural and written communication situations (fundamentals of textual by the professional ural and written communication situations (fundamentals of textual by the professional ural and written communications on tapics related to the undergraduate's life and needs, It develops skills for free professional writing (writing a CV, letter of application polite request), if necessary, revision of selected grammar topics is included.  Z P Ref APP course is based on API, thus extending the student's Skills for working with sublectinical texts, and even with professional texts of chosen branches of science. According the student's skills for the course extends the student's skills for working with sublectinical texts, and even with professional many of descriptions, and, if possible, a case study), furciousing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials the students of the chosen garman reporting, but many individual professional materials and to interpret the text. It includes training oral and written communication in the students of the students of the English programmar and conference in texts.  PAXAPS I Crach for Foreigners - Beginners 1 | 04XAM3 En  | glish for Intermediate Students M3   |                         |                  |                  | Z              | 2                |
| equivalents. The course also includes studying abtracts and rules for writing them as well as basic rules for preparing and giving a short presentation on a chosen topic related to the student's field.  4 AVAP1   English for Advanced Students P1  The course is designed for subridients who have successfully completed the full secondary school English language course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamental or of conduction of the Common European Framework of Reference for Languages - CEFR), It provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamental register of the Common European Framework of Reference for Languages - CEFR), It provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamental register of the Common European Framework of Reference for Languages - CEFR), It provides an accommon provided to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application productions) and the provided of the students of students of the students of the students of students of the English for Advanced Students P3  The AP3 course is based on AP2 and expocts the student to work without any guidance with authoritic professional materials and to interpret the students of the students  | The course develops the skill  | s that enable students to cope with features typical of professional style. Increasing a   | ttention is paid to de  | veloping su      | btechnical vo    | cabulary an    | d independent    |
| student's field.  AVAXP1 English for Advanced Students P1 The course is designed for suddents who have successfully completed the full secondary school English language course (at least the B1 level of the Courne European Framework of Reference for Languages—CEPR, 1 provides an introduction into English for Spendic and Academic Purposes (ESP EAP), i.e., into the fundamentals of vocabulary, functions, grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, graph descriptions, etc.), I also over professional oral and written communication in topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter dapplication polite request), if necessary, revision of selected grammar fopics is included.  AVAXP2 English for Advanced Students P2 The AP2 course is based on AP1, thus estending the student's akills for working with subtrachmical texts, and even with professional texts of chosen branches of science. According to the student's related is concentrated on chosen grammar longics, but mainly intends to develop understanding of syntactic structures and typical referencial functions (e.g., various type of descriptions, and, if possible, a case study). Introducing the student's activated the student's butching included the student's butchi | - ·  |  |                         |                  |                  |                |                  |
| OAXAP1   English for Advanced Students P1 The course is designed for students with broase successfully completed the full secondary school English language course (at least the B1 level of the Common European Frameword) of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamentals of vocabulary, functions, garamara, and spike typical of protessical orial and witten communication into English for Specific and Academic Purposes (ESP EAP), i.e., into the fundamentals of vocabulary functions, garamara, and spike typical of protessical orial and witten communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application policy request), in the students of a selected grammary robics is included.  QAXAP2  | •  | includes studying abstracts and rules for writing them as well as basic rules for prepared | paring and giving a     | short prese      | ntation on a c   | chosen topic   | related to the   |
| The course is designed for situatins who have successfully completed the full secondary school English ingraugage course (at least the B1 level of the Common European Framework of Reference for Languages - CEFR), in provides an innocuclion into English for Specific and Academic Purposes (SSE, EAP), i.e., in chiumdementals of vocabulary, functions, grammar, and style typical of professional oral and written communication on students of the communication of the provision of the provision of the communication of the provision of the communication of the provision of the provision of selected grammar topics is included.  OKAMP2 English for Advanced Students P2 The APP course is based on AP1, thus extending the student's skills for vorking with subsectinical tests, and even with professional writing (writing a CV, letter of application politic request). If necessary, revision of selected grammar topics is included.  OKAMP2 English for Advanced Students P2 The APP course is based on AP1, thus extending the student's skills for vorking with subsectinical tests, and even with professional writing of the student's skills and the student's revision of the student's skills for vorking with subsectinical tests, and even with professional tests of chosen branches of selection understanding of synthesis the student's skills and student's skills for vorking with subsectinical vocabulary and includes for the undergraduate's independent work with and reading of linguistically more demanding materials. The course oterated the subsection and coherence in tests.  OAXAP3 English for Advanced Students P3 English for Advanced Students P3 English for Advanced Students P3 English for Advanced Students and the professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen to provide the |  | eliah fan Advanaad Ctudanta D4   |                         |                  |                  | 7              |                  |
| of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP. EAP), i.e., into the fundamentals of vocabulary, functions, garman, and style typical of professional oral and written communication into convex professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application politic request). If naccessary, revision of selected garmants robgies is included.  40 AVAP2  |  | •  | ne course (at least t   | he B1 level      | of the Comm      |                | _                |
| grammar, and style typical of professional oral and written communication is full undersemble to Items in mathematics and physics, definitions, graph descriptions, etc.). It also covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free professional writing (writing a CV, letter of application politic request), if necessary, revision of selected grammar topics is included.  Val. AVAP.2  The AP2 course is based on AP1 thus extending the student's skills for working with subschriceal texts, and even with professional texts of chosen branches of science. According it the student's related it consentations on chosen grammar topics, but making himselfs to evolve to incentational of synthactic structures and inheterical intentions (e.g., various type of descriptions, and, it possible, a case study), horeasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subschedincy value obscillations and an advertise in texts.  Value and the student's subschedincy value of the student's subschedincy and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an pacegoph sinutcure, likeling, coherence and advertise in texts.  Value and the student's subschedincy and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence and pacegoph structure, likeling, coherence and advertise that the student's subschedincy is subscheding to the student's of the sentence and pacegoph structure, likeling, coherence and advertises to the student's of the sentence and advertises to the sentence and advertises | _  | , ,  | ,                       |                  |                  |                |                  |
| polite request). If necessary, revision of selected grammar topics is included.  OAXAP2 English for Advanced Students P2 The AP2 course is based on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen branches of science. According the students' needs to concentrates or chosen grammar topics, but mainly intends to develop understanding of synitacis structures and pytical intending and professional texts of chosen branches of science. According the students' needs to concentrates or chosen grammar topics, but mainly intends to develop understanding of singularity and pytical memory of descriptions, and includes the student of subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and ocherence in texts.  OAXAP3 English for Advanced Students P3 The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking, summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.  OAXCESZ1 Czech for Foreigners - Beginners 1 The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and communication completences on pronunication exercises, simple social phrases, and oral and written communication in the most convention of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we ac |  | · · · · · · · · · · · · · · · · · · ·  |                         |                  |                  |                |                  |
| GAXAP2   English for Advanced Students P2   2   2   2   1   1   2   2   1   2   2  | covers professional oral and v   | vritten communication on topics related to the undergraduate's life and needs. It deve     | lops skills for free pr | ofessional v     | riting (writing  | a CV, letter   | of application,  |
| The APZ course is based on APT, thus extending the student's skills for working with subtechnical texts, and even with professional texts of rhosen branches of science. According the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and hybical rehostical functions (e.g., various bype of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and coherence in texts.  OAXAP3  | polite request). If necessary,   | revision of selected grammar topics is included.   |                         |                  |                  |                |                  |
| the students' needs it concentrates on chosen grammar topics. but mainly intends to develop understanding of syntactic structures and typical heteroical functions (e.g., various typic descriptions, and, if possible, cases study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and coherence in lests.  ### Additional Properties of the prop | -  | 9  |                         |                  | l                | _              | _                |
| of descriptions, and, if possible, a case study, increasing emphasis is placed on the undergraduate's independent work with and reading of linguistically more demanding materials. The course extends the students' is subtenchical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and coherence in texts.  04XAP3  |  |  | •                       |                  |                  |                | - 1              |
| The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing including the sentence an paragraph structure, linking, cohesion and coherence in texts.  04XAP3   English for Advanced Students P3   English for Advanced Students P3   English for Advanced Students P3   The AP3 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and written communication stills and functions (e.g., expressing) an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract and informal language both in oral and written communication.  Carch for Foreigners - Beginners 1   Z 2 2   2   The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course locuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyda situations. The course covers roughly lessons 1-3 of estima Express (Czech Express) by L. Hold and P. Bo liová.  04XCESZ2   Czech for Foreigners - Beginners 3   Z 2   2   The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers couply lessons 9-5 in Czech Express by L. Hold and P. Bo liová.  04XCESZ3   Czech for Foreigners - Beginners 3   Z 2   2   The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation newer and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise freq |  |  | •                       |                  |                  |                |                  |
| paragraph structure, linking, cohesion and coherence in texts.  4 AVAP3  English for Advanced Students P3  The AP2 course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and writte communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.  AVCESZ1  Czech for Foreigners - Beginners 1  The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everydis situations. The course covers roughly lessons 1-3 of estina Express (Ezch Express) by L. Holia and P. Bo itova.  AVCESZ2  Czech for Foreigners - Beginners 2  2  2  The course in the foreigners - Beginners 2  The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and onjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holia and P. Bo itova.  AVCESZ3  The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech outlure. Students are asked to produce simple texts and they practic requent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in te |  |  |                         | _                |                  |                | -                |
| The APS course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and writter communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summaricial, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.  AVCESZ1   Czech for Foreigners - Beginners 1   Z   2   The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course focuses on pronunciation expresses, simple social phrases, and oral and written communication in the most common everyde situations. The course covers outly lessons 1-30 - etials expresses (Czech Express) by L. Holá and P. Bo liová.  OAXCESZ2   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 conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo liová.  OAXCESZ3   Czech for Foreigners - Beginners 3   Z   2   The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estima expre 1.  OAXCESM1   Czech for Fore |  | ·  |                         |                  | <b>.</b>         |                |                  |
| The APS course is based on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It includes training oral and writte communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing an abstract) and, if possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.  QAXCESZ1   Czech for Foreigners - Beginners 1   Z   2   The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyde situations. The course covers roughly leasons 1-30 et etina Express (Dzech Express) by L. Holá and P. Bo ilová.  QAXCESZ2   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 conjugation system and practise basic communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vaccabulary, fixing correct pronunciation and despening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estima expre 1.  QAXCESM1   Czech for Foreigners - Intermediate 1   Z   2    The course focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for  | 04XAP3 En  | glish for Advanced Students P3   |                         |                  |                  | Z              | 2                |
| also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal language both in oral and written communication.  04XCES21   Czech for Foreigners - Beginners 1  The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyde situations. The course covers roughly lessons 1-3 of estima Express (Czech Express) by L. Holá and P. Bo Ilová.  04XCES22   Czech for Foreigners - Beginners 2  The language and communication competences acquired in CES21 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo Ilová.  04XCES23   Czech for Foreigners - Beginners 2  The course further develops the language and communication competences acquired in the XCES21 and XCES22 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise requent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estima expression of the course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  04XCESM1   Czech for Foreigners - Intermediate 2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains |  | •  | al materials and to i   | nterpret the     | text. It include | es training o  | ral and written  |
| O4XCESZ1 Czech for Foreigners - Beginners 1 The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they w acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyda situations. The course covers roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo ilová.  O4XCESZ2 Czech for Foreigners - Beginners 2 The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.  O4XCESZ3 Czech for Foreigners - Beginners 3 The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech offuture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina express 1.  O4XCESM1 Czech for Foreigners - Intermediate 1 The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  O4XCESM2 Czech for Foreigners - Intermediate 2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM2 Czech for Foreigners - Intermediate 2 The pre | communication skills and fun   | ctions (e.g., expressing an opinion, agreement, and objections; taking part in discus      | ssion, note-taking; s   | ummarizing       | j, writing an a  | bstract) and   | d, if possible,  |
| O4XCES21   Czech for Foreigners - Beginners 1 The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they we acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everyde situations. The course covers roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo illová.  O4XCES22   Czech for Foreigners - Beginners 2 The language and communication competences acquired in CES21 are further developed. Students deepen their knowledge of the declension and conjugation system and practices basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo illová.  O4XCES23   Czech for Foreigners - Beginners 3 The course further develops the language and communication competences acquired in the XCES21 and XCES22 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina expre 1.  O4XCESM1   Czech for Foreigners - Intermediate 1  A 2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the studen in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM2   Czech for Foreigners - Intermediate 2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the studen in understanding common abbreviations, abbreviated words, and |  | given or chosen topic and presenting it. The course places emphasis on distinguish         | ning levels of formal   | and inform       | al language b    | ooth in oral a | and written      |
| The course is designed for students of the English programme. Students will become acquainted with the main characteristics of Czech (phonetic and grammar features) and they wacquire basic language and speaking skills. The course reviews roughly lessons 1-3 of estima Express (Czech Express) by L. Holá and P. Bo Ilová.  04XCESZ2   Czech for Foreigners - Beginners 2   Z   2  The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course overs roughly lessons 3-3 in Czech Express by L. Holá and P. Bo Ilová.  04XCESZ3   Czech for Foreigners - Beginners 3   Z   2  The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estima express.  04XCESM1   Czech for Foreigners - Intermediate 1   Z   2  The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various ocial situations.  04XCESM2   Czech for Foreigners - Intermediate 2   Z   2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  04XCESM3   Czech for Foreigners - Intermediate 3   Z   2  The late to the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common European  |  | och for Egraignara - Baginnara 1   |                         |                  |                  | 7              | 2                |
| acquire basic language and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication in the most common everydas situations. The course covers roughly lessons 1-3 of estina Express (Czech Express) by L. Holá and P. Bo illová.  OdAXCESZ2   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 conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo illová.  OdAXCESZ3   Czech for Foreigners - Beginners 3   Z   2 The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise requent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina expre 1.  OdAXCESM1   Czech for Foreigners - Intermediate 1   Z   2 The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  OdAXCESM2   Czech for Foreigners - Intermediate 2   Z   2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the studen in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  OdAXCESM2   Czech for Foreigners - Intermediate 3   Z   2 The last course revises morphological topics covered and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lex | The state of the s |  | haracteristics of Cz    | ech (nhone       | ı                |                |                  |
| O4XCESZ2 Czech for Foreigners - Beginners 2  Czech for Foreigners - Beginners 2  Czech for Foreigners - Beginners 2  Autoria communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo illová.  O4XCESZ3  Czech for Foreigners - Beginners 3  Z 2  Autoria communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo illová.  O4XCESZ3  Czech for Foreigners - Beginners 3  Z 2  Autoria course in the develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practis frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina expre 1.  O4XCESM1  Czech for Foreigners - Intermediate 1  The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for variou social situations.  O4XCESM2  Czech for Foreigners - Intermediate 2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, ability and is then focused on more difficult grammar phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESM3  Czech for Foreigners - Intermediate 3  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on |  |  |                         |                  | _                |                |                  |
| The language and communication competences acquired in CESZ1 are further developed. Students deepen their knowledge of the declension and conjugation system and practise basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holâ and P. Bo ilová.    Valor  |  |  |                         |                  |                  |                | , ,              |
| basic communication topics. The course covers roughly lessons 3-5 in Czech Express by L. Holá and P. Bo ilová.  04XCESZ3   Czech for Foreigners - Beginners 3   Z   2    The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina expression of the course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  04XCESM2   Czech for Foreigners - Intermediate 2   Z   2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  04XCESM3   Czech for Foreigners - Intermediate 2   Z   2  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  04XCESP1   Czech for Foreigner Students - Advanced 1   Z   2  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 i | 04XCESZ2 Cz  | ech for Foreigners - Beginners 2   |                         |                  |                  | Z              | 2                |
| O4XCESZ3   Czech for Foreigners - Beginners 3   Z   2   The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina express.  O4XCESM1   Czech for Foreigners - Intermediate 1   Z   2   2   The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  O4XCESM2   Czech for Foreigners - Intermediate 2   Z   2   The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2   The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2   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 Univers | The language and communic  | cation competences acquired in CESZ1 are further developed. Students deepen the            | ir knowledge of the     | declension       | and conjugat     | tion system    | and practise     |
| The course further develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on building up basic vocabulary, fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina express.  1. O4XCESM1   Czech for Foreigners - Intermediate 1   Z   2    1. The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various ocial situations.  1. O4XCESM2   Czech for Foreigners - Intermediate 2   Z   2    1. The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  1. O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2    1. The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  1. O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2    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. Wri |  | . ,  |                         |                  |                  |                |                  |
| fixing correct pronunciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce simple texts and they practise frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina express.  04XCESM1   Czech for Foreigners - Intermediate 1   Z   2  The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various oscial situations.  04XCESM2   Czech for Foreigners - Intermediate 2   Z   2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  04XCESM3   Czech for Foreigners - Intermediate 3   Z   2  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  04XCESM3   Czech for Foreign Students - Advanced 1   Z   2  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   Z   2  This course extends the student's knowledge acquired in CESP1 and |  | · ·  |                         |                  |                  | 1              |                  |
| frequent types of dialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly lessons 5-7 in estina express.  1. 04XCESM1   Czech for Foreigners - Intermediate 1   Z   2    1. 04XCESM2   Czech for Foreigners - Intermediate 2   Z   2    1. 04XCESM2   Czech for Foreigners - Intermediate 2   Z   2    1. 04XCESM3   Czech for Foreigners - Intermediate 2   Z   2    1. 04XCESM3   Czech for Foreigners - Intermediate 2   Z   2    1. 04XCESM3   Czech for Foreigners - Intermediate 3   Czech for Foreign Student's writing skills.  04XCESP1   Czech for Foreign Students - Advanced 1   Z   2   2   2   2   2   2   2   2   2   | ·  |  |                         | _                |                  |                | -                |
| 1.  O4XCESM1   Czech for Foreigners - Intermediate 1   Z   2  The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  O4XCESM2   Czech for Foreigners - Intermediate 2   Z   2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2  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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2  The course develops the student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation, and, finally, pres | - ·  |  |                         |                  |                  |                |                  |
| The course is focused on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the student's vocabulary for various social situations.  O4XCESM2   Czech for Foreigners - Intermediate 2   Z   2  The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2  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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2  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  |  |  |                         |                  |                  |                |                  |
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| O4XCESM2   Czech for Foreigners - Intermediate 2   Z   2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2 The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2 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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2 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   | · ·  | <u> </u>   | verb forms as well a    | s on extend      | ing the stude    | nt´s vocabul   | ary for various  |
| The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading skills and trains the student in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3  Czech for Foreigners - Intermediate 3  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1  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.  O4XCESP2  Czech for Foreigners - Advanced 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 greate emphasis on individual work.  O4XCESP3  Czech for Foreigners - Advanced 3  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   | social situations.   |  |                         |                  |                  |                |                  |
| in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.  O4XCESM3   Czech for Foreigners - Intermediate 3   Z   2  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2  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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2  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   |  |  |                         |                  |                  | 1              |                  |
| Czech for Foreigners - Intermediate 3  The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1  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.  O4XCESP2  Czech for Foreigners - Advanced 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 greate emphasis on individual work.  O4XCESP3  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  |  | -  | t practices writing, s  | speaking, ar     | nd reading ski   | ills and train | s the student    |
| The last course revises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especially focused on stylistics and lexicology and on developing the student's writing skills.  O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2   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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2 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  |  |  |                         |                  |                  | 7              |                  |
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| O4XCESP1   Czech for Foreign Students - Advanced 1   Z   2   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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2 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  |  |  | uit language pheno      | illella. It is e | sspecially loc   | useu on sty    | iistics ariu     |
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| 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.  O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2  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   | 1  |  | at least at level B2 o  | of the Comm      | I                | _              |                  |
| includes communication with teachers and faculty administrators.  04XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  04XCESP3   Czech for Foreigners - Advanced 3   Z   2  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   |  |  |                         |                  |                  |                |                  |
| O4XCESP2   Czech for Foreigners - Advanced 2   Z   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 greate emphasis on individual work.  O4XCESP3   Czech for Foreigners - Advanced 3   Z   2 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   | basics of functional style of e  | ngineering and professional communication, both in spoken and written form. The t          | opics include Unive     | rsity Studies    | s and Studen     | t Life. Writte | n practice       |
| 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 greate emphasis on individual work.  O4XCESP3  |  | ·  |                         |                  | 1                |                |                  |
| emphasis on individual work.  04XCESP3   |  | · · · · · · · · · · · · · · · · · · ·  |                         |                  | 1                |                |                  |
| 04XCESP3 Czech for Foreigners - Advanced 3 Z 2 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   |  |  | It practises working    | g with techn     | ical and spec    | ialist texts p | lacing greater   |
| 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  |  |  |                         |                  | ı                | 7              |                  |
|  | l l  |  | e thair interpretation  | n and proce      | ı                |                |                  |
| student's project. Writing skills necessary for professional communication are trained.  | · ·  |  | o, men mierpretatio     | n and prese      | inauon, and,     | many, pres     | cilialion of the |

| 04XFM1   | French for Intermediate Students M1  | Z  | 2  |
|--|--|--|--|
|  | M The objective of this three-semester course is to improve and further develop communication in the French language in bo   |  |  |
|  | cate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tr   | •  |  |
|  | problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, sy   | -  |  |
|  | study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, pe<br>ture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work   |  | -  |
| 04XFM2   | French for Intermediate Students M2  | Z  | 2  |
| -  | M1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science   | . – .  |  |
|  | (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sci   |  |  |
|  | chitects. Description of an object, device, shapes, dimensions, material.  |  | <i>577</i>   |
| 04XFM3   | French for Intermediate Students M3  | Z  | 2  |
| The course is focused of   | n improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (   | subordinate and i  | nfinitive clauses,   |
| participle structures, co  | mpound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-c  | lass. 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 w  | vork compiled fron   | n French articles  |
|  | ge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and  |  |  |
| 04XFP1   | French for Advanced Students P1  | Z  | 2  |
|  | e objective of this three-semester course is to improve and further develop communication in the French language in both w   |  |  |
|  | in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit gen  |  |  |
| •  | The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are routly be consisted in the following specific topics are covered: University studies in our country and in France, writing of transactions  |  | •  |
|  | dvert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Top  |  |  |
| •  | stry. Reading of technical and popular science texts, further work with these texts and interpretation.  |  | ,  |
| 04XFP2   | French for Advanced Students P2  | Z  | 2  |
|  | ents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication o   | . – .  |  |
| technical and scientific   | communication are stressed (passive voice, nominalization, word formation).  |  |  |
| 04XFP3   | French for Advanded Students P3  | Z  | 2  |
| The course is focused of   | n systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in  | engineering envir  | onment. Special  |
| skill - translation of short   | ter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally co  | vers a technical /a  | pplied science   |
| topic. It is a creative wo   | rk compiled from 3 French sources. Preparation of several set topics for oral examination.   |  |  |
| 04XFZ1   | French for Beginners Z1  | Z  | 2  |
| ŭ  | e objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in   | ŭ  | •  |
|  | ench for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able   |  |  |
| · · · · ·  | knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdite ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions  |  | -  |
|  | nple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia  | -  | _  |
| 04XFZ2   | French for Beginners Z2  | 7  | 2  |
| -  | with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of   | the textbook: Pray   |  |
| - ·  |  |  |  |
| Trendition beginners.  | Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem   | ent - disagreemer  | nt, apology,   |
| •  | Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreem<br>of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm  | ŭ  |  |
| thanking, travelling, map  |  | ŭ  |  |
| thanking, travelling, map  | o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral comm  | ŭ  |  |
| thanking, travelling, map<br>How does the machine<br>04XFZ3  | o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commovrk? A few expressions concerning the study. Name of University and Faculty.   | nunication. Specific   | c topics covered:  |
| thanking, travelling, map<br>How does the machine<br>04XFZ3<br>The course builts upon<br>Topics, functions and si  | o of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commwork? A few expressions concerning the study. Name of University and Faculty.  French for Beginners Z3  FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Functions are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in  | nunication. Specific  Z  Pravdová: French  | c topics covered:  2 for Beginners.  |
| thanking, travelling, map<br>How does the machine<br>04XFZ3<br>The course builts upon<br>Topics, functions and si<br>pronunciation practice.   | of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commowork? A few expressions concerning the study. Name of University and Faculty.  French for Beginners Z3  FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Functions are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in Reading covers short adapted texts of general interest first, and later popular science texts.  | Z<br>Pravdová: French<br>nformation and lou  | c topics covered:  2 for Beginners. ud as part of  |
| thanking, travelling, map<br>How does the machine<br>04XFZ3<br>The course builts upon<br>Topics, functions and si<br>pronunciation practice.<br>04XFZ4   | of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commovork? A few expressions concerning the study. Name of University and Faculty.  French for Beginners Z3  FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Functions are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in Reading covers short adapted texts of general interest first, and later popular science texts.  French for Beginners Z4   | Z Pravdová: French information and lou   | c topics covered:  2 for Beginners. ad as part of  |
| thanking, travelling, may How does the machine 04XFZ3 The course builts upon Topics, functions and si pronunciation practice. 04XFZ4 The course builds up or   | of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commwork? A few expressions concerning the study. Name of University and Faculty.  French for Beginners Z3  FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Functions are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for in Reading covers short adapted texts of general interest first, and later popular science texts.  French for Beginners Z4  FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The orange of the stress of the st | Z Pravdová: French information and lou   | 2 for Beginners. Id as part of  2 y covered with   |
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|  | students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend  |  |   |
|  | 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 va  | riety of less com  |   |
|  | accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the v   |  |   |
| · -  | g, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are use   | =  |   |
| practice to and from Gern  | ocess information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The  | ne course also inc   | ludes translation   |
| ·  | Russian for Intermediate Students M1   | Z  | 2   |
|  | r students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphat   | _  |   |
| basic vocabulary for comr  | munication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask  | ing the way and g  | iving directions),  |
| _ ·  | nar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement   | level of the RZ2   | course. The   |
|  | e course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable.   | -  |   |
|  | Russian for Intermediate Students M2 ne RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the timetable.   | Z  | 2   |
|  | Russian for Intermediate Students M3   | Z  | 2   |
|  | knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h   | l  |   |
| in the timetable.  |  |  |   |
| 04XRP1 F   | Russian for Advanced Students P1   | Z  | 2   |
| -  | t for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, processing the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, processing the course is to achieve the B1 CEFR level.  | acticing more diffi  | cult grammar  |
|  | 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  | 2   |
|  | on independent oral and written communication.   | verb aspects, spe  | cinc symactic   |
|  | Russian for Advanced Students P3   | Z  | 2   |
|  | RP2 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).   |  |   |
| -  | is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and  | -  |   |
| technical topics.  | I vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write  | accurately and wi  | in confidence on  |
|  | Russian for Beginners Z1   | Z  | 2   |
|  | e first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russ   | _  | <del>-</del>  |
| the Russian alphabet (for  | both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak   | ing). Students wil   | be able to read   |
|  |  |  |   |
|  | stress, understand its contents and summarize it.  |  |   |
| 04XRZ2   | Russian for Beginners Z2   | Z  | 2   |
| 04XRZ2 F The second semester of t  | Russian for Beginners Z2 the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short so  | ubtechnical texts.   | Students will be  |
| 04XRZ2 Fig. 1. The second semester of table to communicate usin  | Russian for Beginners Z2 the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short surgesther the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short surgest short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will   | ubtechnical texts.   | Students will be  |
| 04XRZ2   F<br>The second semester of t<br>able to communicate usin<br>master further grammatic   | Russian for Beginners Z2 the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short so  | ubtechnical texts.   | Students will be  |
| 04XRZ2   F<br>The second semester of t<br>able to communicate usin<br>master further grammatic<br>04XRZ3   F   | Russian for Beginners Z2 the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sugeshort sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will al structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.   | ubtechnical texts. also develop thei   | Students will be vocabulary and   |
| 04XRZ2   F The second semester of t able to communicate usin master further grammatic 04XRZ3   F The course is based on R and listening) and introdu   | Russian for Beginners Z2 the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short so g short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will al structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing.  Russian for Beginners Z3 Z2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for trainces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be  | ubtechnical texts. also develop thei   | Students will be vocabulary and 2 of reading skills   |
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| 04XSP3                   | Spanish for Advanced Students P3   | Z                    | 2                  |
|--------------------------|--|----------------------|--------------------|
| Course XSP3 is the fina  | I part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is | focused on writter   | communication      |
| pased on what students   | s will need in their career.   |                      |                    |
| 04XSZ1                   | Spanish for Beginners Z1   | Z                    | 2                  |
| Course XSZ1 is the firs  | t stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fund      | amental grammar      | structures and     |
| will be able to communi  | cate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanis      | sh and will develop  | o it.              |
| 04XSZ2                   | Spanish for Beginners Students Z2  | Z                    | 2                  |
| Course XSZ2 is based     | on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures            | and lexis will be cl | nosen so as to     |
| enable them to underst   | and short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countrie:      | s and others such    | as the Czech       |
| Republic. Realia of Spa  | nish-speaking countries are also included.   |                      |                    |
| 04XSZ3                   | Spanish for Beginners Z3   | Z                    | 2                  |
| This course builds upor  | the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It inclu           | ides an introduction | on to the realia   |
| and cultural context of  | Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, includi    | ng the pretérito pe  | erfecto, pretérito |
| ndefinido, pretérito imp | erfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topic         | cs. Students are p   | repared for this   |
| hrough targeted reading  | g and listening activities.  |                      |                    |
| 04XSZ4                   | Spanish for Beginners Z4   | Z                    | 2                  |
| The course is based or   | course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spai          | nish speaking cou    | ntries, mainly of  |
| Spain. It pays attention | to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of    | the imperative, an   | d subjunctive),    |
| o written and oral com   | munication on a given general or subtechnical topic, for which the student is trained by reading texts or listening to them.       |                      |                    |
| 04XSZ5                   | Spanish for Beginners Z5   | Z                    | 2                  |
| The course books are s   | supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanisl    | h for specific purp  | oses. In its final |
| part the general Chani   | sh course based on the course book will end with a written and oral examination.   |                      |                    |

# List of courses of this pass:

| Code   | Name of the course   | Completion   | Credits   |
|--|--|--|---|
| 00MAM2   | Essentials of High School Math Course 2  | Z  | 1   |
|  | Review of basics of high school mathematics.   | '  | ·   |
| 00YMAM1  | Essentials of High School Course 1   | Z  | 1   |
| '  | Students are introduced to mathematical concepts and methods used in the introductory physics course.  |  |   |
| 00YPT  | Orientation Week   | Z  | 2   |
| The preparatory week   | k is intended for incoming bachelor's students. It includes an introduction to the organizational requirements of university studies are   | nd introductory lec  | tures for the   |
|  | first semester.  |  |   |
| 01ALGE   | Algebra  | Z,ZK   | 6   |
|  | oms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the  |  |   |
| statements, definition   | on of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral dom  | ains, principal idea   | al domains,   |
|  | fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields.   |  | 1   |
| 01BPMI1  | Bachelor project 1   | Z  | 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 proj   | ect supervisor duri  | ng common   |
|  | regular meetings and discussions.  |  |   |
| 01BPMI2  | Bachelor project 2   | Z  | 10  |
| 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 proj   | ect supervisor duri  | ng common   |
|  | regular meetings and discussions.  |  |   |
| 01DEM  | History of Mathematics   | Z  | 1   |
| The subject has the f  | orm of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - g   | ive their talks on va  | aroius topics   |
|  | from the history of mathematics.   |  |   |
| 01DIMA3  | Discrete Mathematics 3   | ZK   | 2   |
|  | problems and methods of their solving from various parts of discrete mathematics. The seminar includes individual problem solvin   | a of ones own cho  | ice from the  |
| Students get to know   |  | g or ones own one  |   |
|  | given literature.  |  |   |
| Students get to know   | Simple Compilers   | Z  | 2   |
| 01JEPR   | <u> </u>   | Z  |   |
| 01JEPR 01LAL2  | Simple Compilers Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.  Linear Algebra 2   | Z<br>Z,ZK  | 4   |
| 01JEPR  01LAL2 Outline: 1. Inverse   | Simple Compilers Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.  Linear Algebra 2  matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an  | Z,ZK<br>d quadratic forms.   | 4<br>5. Scalar  |
| 01JEPR  01LAL2  Outline: 1. Inverse product and orthogo  | Simple Compilers Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.  Linear Algebra 2  matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr  | Z,ZK d quadratic forms. ices. 2. Methods of  | 4<br>5. Scalar<br>calculation                                     |
| 01JEPR  01LAL2  Outline: 1. Inverse product and orthogo  | Simple Compilers Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.  Linear Algebra 2  matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr.  Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonality.  | Z,ZK d quadratic forms. ices. 2. Methods of  | 4<br>5. Scalar<br>calculation                                     |
| 01JEPR  01LAL2  Outline: 1. Inverse product and orthogo of determinants. 3   | Simple Compilers Lexical and syntax analysis, code generation, simple optimizations, development environments, reflection.  Linear Algebra 2  matrix and operator. 2. Permutation and determinant. 3. Spectral theory (eigenvalue, eigenvector, diagonalization). 4. Hermitian an nality. 6. Metric geometry. 7. Riesz theorem and adjoint operator. Outline of the exercises: 1. Methods for calculation of inverse matr.  Calculation of eigenvalues and eigenvectors. 4. Hermitian and quadratic forms. Canonical form. 5. Scalar product and orthogonalit complements. 6. Geometry exercises and examples. 7. Adjoint operators.   | Z,ZK d quadratic forms. ices. 2. Methods of y. Calculation of or                           | 4<br>5. Scalar<br>f calculation<br>thogonal                       |
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| appointment using torowiedge previously obtained in a variety of subjects availables of PNSPC. The first part of the course covers the applications of computer graphics approaches in the proteon of authority constitution characters and previously applications of the total service of Juntal Previously and the covers of the covers of the protection of the covers of the protection of the protection of the covers of the protection of the protec | The first part of the  | two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of  | f the art technolog  | ies. Further,   |
| The process of authoring sensitive coursers and presentations.  If the process of part of the two-ementer Computer Cinghos's course begins with a brief introduction to signal shorty in the content of alisating -a phenomenon utalization in computing signals. Purplish or substitution arrange of tradential processing in the content of part of o |  |  | •  |   |
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| at PNSPE. The algorithm implementation aspect such as case structures design etc. is also a matter of concern. In the last secure, a number of theoretical consepts are demonstrated using Retender, an open-anours 20 modelling and residency growther instrument.  OFFSE. The course is devoted to the bester and foreigned of computer typography, particularly to the system LaTeX.  OFFSE. The course is devoted to the bester and foreigned of computer typography, particularly to the system LaTeX.  OFFSE. The devoted to the statistical techniques for general devoted on production and control of statistical productions are controlled to controlled the control of the statistical techniques for general devoted on controlled to composition of statistical programming.  OFFSE. The algorithm implementation and statistical programming to the statistical techniques for general devoted on controlled to controlled the controlled to the statistical techniques for general devoted to controlled the controlled to controlled the controlled to controlled the controlled to controlled to controlled to controlled to the statistical techniques of the controlled to the controlled to controlle |  |  |  |   |
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| Simple graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identification and reflection.  Algebra and Calculus in Applications  Text 2  We illustrate methods based on combination of (COMmuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems are motivated by problems from informations and they are interested by problems from informations and they are interested by problems from informations.  Theory of Codes  Algebraic methods used in error desteding and error correcting codes.  Theory of Codes  Algebraic methods used in error desteding and error correcting codes.  The aim of this course is to provide a broad introduction to marking and statistical management in any protection. Main attention is paid to the basic methods of learning with the teacher, cluster analysis and dimensionally reduction. The lectures and theory explanation is accompaned by examples of experiments and practical applications. Exercises use Pythona and furn in computer that she with emphasis on the implementation and use of machine large principations. Basic interests and practical applications. Exercises use Pythona and furn in computer that she with emphasis on the implementation and use of machine learning applications is paid to the basic method she learning and structures and principations. Exercises use Pythona and furn in computer data she with emphasis or the includes and making and extra structures.  OTYANAS Mathematical Analysis A 3  Fundion sequences and series, introduction to specify and metric spaces. differential calculus of functions of several variables.  OTYANAE Mathematical Analysis A 4  Investor and implicat functions, constrained activation, measure and integration the social provides as a practical training for the deterned of the bachelors degree project. The students give oral presentations of the current state of the scaledors of the students of project. The students give oral presentations of the current state | 04 DW  |  | 7  |   |
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| We illustrate methods based on combination of (CONtinuous) calculus and discrete (disCRETE) structures, so calles concrete mathematics. Theorems are motivated by problems from information.  O1TKO  Theory of Codos  Algoriaic methods used in entire distortion gradients of the company of the codos of | •  |  |  | 2   |
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| O1YBASE   Bachelor Seminar   Sachelor Seminar   Z   1   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 presentiations of the current state of the research results schewed 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.  O1YDIFR   Differential Equations    | 04.77.01.4   |  |  | 0   |
| O1YBASE  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.  O1YDIFR  Differential Equations  O1YDIFR  Differential Equations  O1YDIMI  Discrete Mathematics 1  O1YDIMI  Discrete Mathematics 2  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  O1YDIMI  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  O1YFAN2  The seminar is devoted to recurrence relations. It includes individual problem solving.  O1YFAN2  The course contains into present selected fundamental results from functional analysis includes individual problem solving.  O1YFAN2  The course aims to present selected fundamental results from functional analysis includes individual problem solving.  O1YFAN2  The course sims to present selected fundamental results from functional analysis includes individual problem solving.  O1YFAN3  The course sims to present selected fundamental results from functional analysis includes individual problem solving.  O1YFAN3  Functional Analysis 1  Functional Analysis in convertible of the theory of Banach spaces, closed operators and their spectrum, Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  O1YFAN4  Functional Analysis 1  Functional Analysis 1  Functional Analysis 1  F | UTTAINA4   | i ·  | Z,ZR   | 9   |
| 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 tolkowed by a discussion on scientific matters as well as on the possibilities of improving the students performance.  OTYDIFR  Differential Equations  Differential Equations  Differential Equations  The course contains introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the existence theory, solution of linear types of equation in the theory of boundary-value problems.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  The seminar is devoted to recurrence relations. It includes individual problem solving.  The seminar is devoted to recurrence relations. It includes individual problem solving.  The course aims to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed operators and their spectrum, Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  OTYFANA1  Functional Analysis 1  Z,ZK 5  OTYFKO  Functional Analysis 1  Equation 1  Functional Analysis including 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, Moren's theorem, roots of a holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Louville's theorem, the Cauchy estimates, Laurent | 01YBASE  |  | 7  | 1   |
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| 01YNMA1         Numerical Mathematics 1         ZK         4           The course introduces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good understanding of the root of theoretical methods.           01YPRST         Probability and Statistics         Z,ZK         4           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.  | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts frof a complex function theorem, roots of a  01YLAL 1. Vector space. 2  01YLALZ  01YMAN  01YMAN2 1. Continuation of  | performance.  Differential Equations Is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1 The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2 The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functions of Complex Variable on outlining the Jordan curve theorem and the Riemann-Stieltjes integral. Then basic results of complex analysis in one variable are exon 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 estimated theorem.  Linear Algebra 1  Linear Algebra 1  Linear Algebra 1, exam  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute are over series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integro  | Z,ZK the existence theory  Z  Z,ZK the perators and their stands and their stands are theore the stands are the | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 4  8 vergence 3.                |
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| theoretical methods.  O1YPRST Probability and Statistics Z,ZK 4  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.  | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts froing a complex function theorem, roots of a complex function theorem, roots of a complex function of a complex function for space. 2  01YLAL  01YLAL  01YMAN  01YMAN2 1. Continuation of Real and complex function for the course starts froing from the course function for a complex function for the course function for the course function function of the course function func | Differential Equations Is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functional Analysis 1  Functional Analysis 1  Functions of Complex Variable  om outlining the Jordan curve theorem and the Riemann-Stietijes integral. Then basic results of complex analysis in one variable are expected to a closed curve, Cauch holomorphic function, analytic continuation, isolated singularities, the maximum modulus principle, Liouville's theorem, the Cauchy estitate orm.  Linear Algebra 1  Linear Algebra 1, exam  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an apower series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  | Z,ZK the existence theory Z Z Z,ZK the perators and their standard in detail: the py's integral theore mates, Laurent ser Z Text Text Text Text Text Text Text Text  | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 4  8 vergence 3. inite integral |
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| 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.   | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts fro fa complex function theorem, roots of a  01YLAL 1. Vector space. 2  01YLALZ  01YMAN  01YMAN2 1. Continuation of Real and complex  01YMANZ  01YMANZ  01YMANZ  | performance.  Differential Equations s introduction in the solution of ordinary differential equations, it contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1 The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2 The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2 to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed or Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functional Analysis 1 Functional Analysis 1 Functions of Complex Variable orn outlining the Jordan curve theorem and the Riemann-Stiettjes integral. Then basic results of complex analysis in one variable are exon 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 est theorem.  Linear Algebra 1 Linear Algebra 1 Linear Algebra 1, exam  Calculus 1 Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2 differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Numerical Mathematics 1  uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good   | Z,ZK the existence theory Z Z,ZK the perators and their stands and their stands and their stands and their stands are the properties. Z,ZK the plained in detail: the prise integral theore mates, Laurent services are mappings. 7.  ZK Z,ZK and conditional converses are the primitives, defined the primitives are the primitives and the primitives are the  | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 Frobenius  4  4  4  4           |
| •  | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts froing a complex function theorem, roots of a  01YLAL 1. Vector space. 2  01YLALZ  01YMAN  01YMAN2 1. Continuation of Real and complex  01YMANZ  01YMANZ  01YMANZ  01YMANZ  01YMANAI The course introduction   | performance.  Differential Equations is introduction in the solution of ordinary differential equations, at survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functional Analysis 1  Functions of Complex Variable  om outlining the Jordan curve theorem and the Riemann-Stietjes integral. Then basic results of complex analysis in one variable are exon 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 estimater and the Cauchy-Riemann equations, and dimension. 4. Subspaces of vector spaces. 5. Linear mappings. 6. Matrices of linear Algebra 1  Linear Algebra 1, exam  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an owner series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Numerical Mathematics 1  unces to numerical methods for solving the basic problems arising from techn | Z,ZK the existence theory Z Z Z,ZK the perators and their stands and their stands and their stands and their stands are the properties. The properties of th | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 Frobenius  4  4  4 the root of  |
| On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are explained.   | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts fro fa complex function theorem, roots of a  01YLAL 1. Vector space. 2  01YLALZ  01YMAN  01YMAN2 1. Continuation of Real and complex  01YMANZ  01YMANZ  01YMANZ  01YMANA1 The course introcurse introcurse introcurse  | performance.  Differential Equations Is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed or Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functional Analysis 1  Functions of Complex Variable  orn outlining the Jordan curve theorem and the Riemann-Stietilges integral. Then basic results of complex analysis in one variable are exported 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 estituteorem.  Linear Algebra 1  Linear Algebra 1  Linear Algebra 1, exam  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute an owner series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Numerical Mathematics 1  uces to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good theoretical methods.  Probability and Statistics  | Z,ZK the existence theory Z Z Z,ZK the perators and their stands and their stands and their stands and their stands are the properties. The properties of th | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 Frobenius  4  4  4 the root of  |
|  | 01YDIFR The course contain  01YDIM1  01YDIM2  01YFAN2 The course aims  01YFANA1  01YFKO The course starts from a complex function theorem, roots of a complex function theorem, roots of a complex function theorem, roots of a complex function of a complex function for a complex function of a complex function of a complex function of the function of t | Differential Equations Is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of the linear types of equations and introduction in the theory of boundary-value problems.  Discrete Mathematics 1  The seminar is devoted to elementary number theory and applications. It includes individual problem solving.  Discrete Mathematics 2  The seminar is devoted to recurrence relations. It includes individual problem solving.  Functional analysis 2  to present selected fundamental results from functional analysis including basic theorems of the theory of Banach spaces, closed of Hilbert-Schmidt operators, spectral decomposition of bounded self-adjoint operators.  Functional Analysis 1  Functional Analysis 1  Functional Analysis 1  Functions of Complex Variable  on outlining the Jordan curve theorem and the Riemann-Stiettjes integral. Then basic results of complex analysis in one variable are exon 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 estitheorem.  Linear Algebra 1  Linear Algebra 1, exam  Calculus 1  Basic calculus (real analysis, functions of one real variable, differential calculus).  Calculus 2  differential calculus: Taylor's Polynomials, Taylor's formula 2. Infinite series: criteria of convergence, operations on series, absolute are power series, the Cauchy-Hadamard theorem, expansion of function into power series, summation of infinite series. 4. Theory of integration and application of integrals, Generalized Riemann integral  Calculus 1, exam  Numerical Mathematics 1  uues to numerical methods for solving the basic problems arising from technical and research problems. The accent is put on a good theoretical methods.  Probability and Statistics  a of probability theory and mathematical statistics. The probability theo | Z,ZK perators and their s  Z,ZK perators and their s  Z,ZK perators and their s  Z,ZK plained in detail: the hy's integral theore mates, Laurent ser  Z near mappings. 7.  ZK  Z  Z,ZK  understanding of  ZK  ZK  understanding of  Z,ZK  continuing till the korems are stated a  | 4 y, solution of  2  2  5 spectrum,  5 3 ne derivative em, Morera's ries, residue  2 Frobenius  2 Frobenius  4  4  4 the root of  |

| 01ZAOS                   | Introduction to Operating Systems   | Z,ZK                  | 2               |
|--------------------------|---|-----------------------|-----------------|
|                          | tion to structure of operating systems. Processes, thread, memory management. Synchronization of multi-threaded applications. Mel   | mory mapped files     |                 |
| 02YDEF1                  | History of Physics 1  | Z                     | 2<br>Dhysics in |
|                          | ice in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo<br>Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, F   |                       |                 |
| . resemble period, .     | as experimental science. Newton and his work.   | raygonor rive on ar   | o. pyo.oo       |
| 02YDEF2                  | History of Physics 2  | Z                     | 2               |
| •                        | classical mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. E  | -                     |                 |
| . •                      | anism, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzmann.  |                       |                 |
| and relativistic pr      | nysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er standard model. The concept of Nature and Universe of today.   | iergy, Elementary     | particles,      |
| 02YELMA                  | Electricity and Magnetism   | Z,ZK                  | 6               |
|                          | ulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors anddielectrics. Electric current and circuits, cond   | ,                     | _               |
| theory.                  | Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, Magnetic dipole, magnetics.   | laxwell equations     |                 |
| 02YMECH                  | Mechanics   | Z                     | 4               |
|                          | cs, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimension  |                       |                 |
| in central force ne      | eld, forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bod<br>continuum mechanics, elasticity, hydrodynamics. Sound.  | y, rotation. Fundan   | nentais oi      |
| 02YMECHZ                 | Mechanics - Examination   | ZK                    | 2               |
|                          | The content of the subject is the examination according to the plan of studies.   |                       |                 |
| 02YTEF1                  | Theoretical Physics 1   | Z,ZK                  | 4               |
|                          | roduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism   |                       |                 |
|                          | ynamics (Newtons, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary<br>on of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principles  | •                     | , ,             |
| problem, the motio       | the first part of the course of classical theoretical physics (02TEF1, 02TEF2).   | or meenames. The      | , subject is    |
| 02YTEF2                  | Theoretical Physics 2   | Z,ZK                  | 4               |
|                          | sformations in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and   |                       | - 1             |
| Minkowski space-tir      | ne. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electrom   | nagnetic radiation i  | in the dipole   |
| OOVTED                   | approximation.  | Z,ZK                  | 1               |
| 02YTER Thermal expansion | Heat and Molecular Physics of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic   | ,                     | d 4             |
| · ·                      | cal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dist   |                       | - 1             |
| 02YVOAF                  | Waves, Optics and Atomic Physics  | Z,ZK                  | 6               |
| Wave phenomena           | in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polariza   | tion, interference,   | diffraction,    |
| coherence. Geor          | netrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Bro   | glie waves,the Sch    | nrodinger       |
| 047414                   | equation, stationary states and spectra of finite systems.  | 7                     |                 |
| 04XAM1                   | English for Intermediate Students M1 ned for students who have successfully completed the full secondary school English language course at least at the A2 level of the C   | Z<br>Common European  | 2<br>Framework  |
|                          | nguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundamentals of  |                       |                 |
| professional oral ar     | nd written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnical into   | erest. Attention is a | also paid to    |
|                          | extending the knowledge of grammar issues used in EAP.  |                       |                 |
| 04XAM2                   | English for Intermediate Students M2  | Z                     | 2               |
|                          | xpects the student to have completed the AM1 course. It develops their skills for work with subtechnical texts, focusing also more on<br>ical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also guided  | · -                   |                 |
| and lexical items typ    | revision is included.   | writing. If fiecessa  | ry, grammar     |
| 04XAM3                   | English for Intermediate Students M3  | Z                     | 2               |
| l l                      | s the skills that enable students to cope with features typical of professional style. Increasing attention is paid to developing subtechnical  | al vocabulary and i   |                 |
| •                        | professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and written communication   |                       |                 |
| equivalents. The co      | urse also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a short presentation of  | n a chosen topic re   | elated to the   |
| 04XAMZK                  | student's field.  English for Intermediate Students Examination   | ZK                    | 4               |
|                          | trigilish for intermediate Students Examination  nt is the examination as given by the study plan. The examination covers the AM1, AM2, and AM3 courses and consists of two parts   |                       |                 |
|                          | 0 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               |
| -                        | ned for students who have successfully completed the full secondary school English language course (at least the B1 level of the Co   |                       |                 |
|                          | anguages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into the fundament  | =                     |                 |
| -                        | e typical of professional oral and written communication situations (fundamentals of terms in mathematics and physics, definitions, gu<br>oral and written communication on topics related to the undergraduate´s life and needs. It develops skills for free professional writing (wi  |                       |                 |
| cororo professional      | polite request). If necessary, revision of selected grammar topics is included.   | g a O v, iellei Ui    | application,    |
| 04XAP2                   | English for Advanced Students P2  | Z                     | 2               |
|                          | pased on AP1, thus extending the student's skills for working with subtechnical texts, and even with professional texts of chosen brain   |                       | - 1             |
|                          | it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures and typical rhetorical  | · -                   |                 |
| =                        | d, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with and reading of linguistical the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. It is focused on formal writing the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science. | -                     | - 1             |
| o oodigo exterius        | paragraph structure, linking, cohesion and coherence in texts.  | go.ddiiig tile st     | and             |
| 04XAP3                   | English for Advanced Students P3  | Z                     | 2               |
| The AP3 course is b      | pased on AP2 and expects the student to work without any guidance with authentic professional materials and to interpret the text. It in  | _                     |                 |
|                          | Ils and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-taking; summarizing, writing   | •                     | -               |
| also preparing a p       | project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of formal and informal languards communication.   | uage both in oral a   | ına written     |
|                          | сопшинсанот.  |                       |                 |

| 04XAPZK The course conten   | English for Advanced Students Examination  | ZK   | 4   |
|---|--|--|---|
|   | t is the examination as given by the study plan. The student is supposed to demonstrate mastering the AP3 syllabus and the ability to a  |  | ge obtained   |
| in the three AP   | courses. The examination consists of 2 parts - written (100 min) and oral (30 min) and includes also oral presentation of a topic from   | the student's field  | of study.   |
| 04XCESM1 The course is focus  | Czech for Foreigners - Intermediate 1 sed on correct pronunciation, important morphological phenomena, prepositional phrases, and verb forms as well as on extending the st social situations.   | Z<br>tudent´s vocabular  | 2<br>y for various  |
| 04XCESM2  | Czech for Foreigners - Intermediate 2  | Z  | 2   |
|   | ps the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and reading in understanding common abbreviations, abbreviated words, and mathematical terms and formulas.   |  |   |
| 04XCESM3  | Czech for Foreigners - Intermediate 3  | Z  | 2   |
|   | evises morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is especia  |  |   |
| 041/0501471/  | lexicology and on developing the student's writing skills.   | 71/  | 4   |
| 04XCESMZK   | Czech for Intermediate Students Examination  It is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES  | ZK   | 4   |
| The course conte  | be taken after successful completion of the 3 courses. Detailed information is to be obtained from the teacher.  | ivi i,2,3 courses ai   | id can only   |
| 04XCESP1  | Czech for Foreign Students - Advanced 1  | Z  | 2   |
|   | the course is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Europe   |  |   |
|   | on revision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of scienal style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies and Studies and Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies and Studies are style of engineering and professional communication, both in spoken and written form. The topics include University Studies are style of engineering and professional communication are style of engineering and style of en |  | -   |
| 04VCECD2  | includes communication with teachers and faculty administrators.   | 7  | 2   |
| 04XCESP2  | Czech for Foreigners - Advanced 2 Is the student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical and  | Z  | 2   |
| This course extend  | emphasis on individual work.   | specialist texts pla   | cing greater  |
| 04XCESP3  | Czech for Foreigners - Advanced 3  | Z  | 2   |
| The course develo   | 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.   | and, finally, presen   | tation of the   |
| 04XCESPZK   | Czech for Foreign Students - Advanced Examination  | ZK   | 4   |
|   | nt is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the CES 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   |  |   |
| acquire basic langi   | uage and speaking skills. The course focuses on pronunciation exercises, simple social phrases, and oral and written communication situations. The course covers 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   | 7  | 2   |
|   | 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 ilová.   | _  |   |
| 04XCESZ3  |  | 7  | 2   |
|   | Czech for Foreigners - Beginners 3 or develops the language and communication competences acquired in the XCESZ1 and XCESZ2 courses. The teaching focuses on   | _  |   |
| fixing correct pronu  | inciation and deepening grammar, features through practice, as well as introducing the Czech culture. Students are asked to produce  |  |   |
|   |  | •  |   |
| frequent types of d   | ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly  1.   | •  |   |
|   | ialogue. 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 e   |   |
| 04XCESZZK   | ialogue. 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 e   | ština expres  |
| 04XCESZZK   | ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly  1.  Czech for Foreigners Beginners - Examination   | lessons 5-7 in e   | ština expres  |
| 04XCESZZK   | ialogue. They also practise understanding texts in terms of main ideas or looking for specific details in texts. The course covers roughly  1.  Czech for Foreigners Beginners - Examination  int 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  | lessons 5-7 in e   | ština expres  |
| 04XCESZZK The course conte  04XFM1 French - intermedi   | Czech for Foreigners Beginners - Examination  In this 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.  French for Intermediate Students M1  ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both or specific details in texts. The course covers roughly 1.   | ZK CESZ1,2,3 course  Z vritten and oral for  | 4 es and can  2 m. Students   |
| 04XCESZZK The course conte  04XFM1 French - intermedii will be able to co   | Czech for Foreigners Beginners - Examination  In this 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.  French for Intermediate Students M1  ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both wommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to tra  | ZK CESZ1,2,3 course  Z vritten and oral for nsmit general and  | 4 es and can  2 m. Students technical   |
| 04XCESZZK The course conte  04XFM1 French - intermedi will be able to co  | Czech for Foreigners Beginners - Examination  In this 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.  French for Intermediate Students M1  atter FM The objective of this three-semester course is to improve and further develop communication in the French language in both wommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trae solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systems.  | ZK CESZ1,2,3 course  Z vritten and oral for nsmit general and emizes and expand  | 4 es and can  2 m. Students technical Is language   |
| 04XCESZZK The course conte  04XFM1 French - intermedi will be able to co information and to skills gained in pre  | Czech for Foreigners Beginners - Examination ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate 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, systevious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor  | ZK CESZ1,2,3 course  Z vritten and oral fornsmit general and emizes and expandal statement, required.  | 4 es and can  2 m. Students technical Is language lest, answer  |
| 04XCESZZK The course conte  04XFM1 French - intermedi. will be able to co information and to skills gained in pre- to an advert,  | Czech for Foreigners Beginners - Examination Interest 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.  French for Intermediate Students M1  ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to trae solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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  | ZK CESZ1,2,3 course  Z vritten and oral forinsmit general and emizes and expandial statement, require based on these   | 4 s and can  2 m. Students technical Is language lest, answer texts.  |
| 04XCESZZK The course conte  04XFM1 French - intermedi will be able to co information and to skills gained in pret to an advert, 04XFM2  | Czech for Foreigners Beginners - Examination ent is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1 ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate 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, systevious study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, persor  | ZK CESZ1,2,3 course  Z vritten and oral forinsmit general and emizes and expandial statement, requirk based on these   | 4 es and can  2 m. Students technical ls language est, answer texts.  |
| 04XCESZZK The course conte  04XFM1 French - intermedi. will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds   | Czech for Foreigners Beginners - Examination  In this 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.  French for Intermediate Students M1  atter FM The objective of this three-semester course is to improve and further develop communication in the French language in both of the solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science texts are usuage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science texts are usuage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science texts are usuage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science texts are usuage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science texts.  | ZK CESZ1,2,3 course  Z vritten and oral forinsmit general and emizes and expandial statement, requirk based on these  Z s, features typical  | 4 es and can  2 m. Students technical ls language est, answer texts.  2 for technical   |
| 04XCESZZK The course conte  04XFM1 French - intermedi will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds and scientific lar   | Czech for Foreigners Beginners - Examination  Into its 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.  French for Intermediate Students M1  atte FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to translate solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text acquired (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science scientists, artists and architects. Description of an object, device, shapes, dimensions, material.   | ZK CESZ1,2,3 course  Z vritten and oral formonemit general and emizes and expandinal statement, requirk based on these  Z ss, features typical ince and technolog  | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French   |
| 04XCESZZK The course conte  04XFM1 French - intermedit will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds and scientific lar  | Czech for Foreigners Beginners - Examination  Int 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.  French for Intermediate Students M1  Intermediate Students M1  Intermediate Students M1  Intermediate FM The objective of this three-semester course is to improve and further develop communication in the French language in both with the problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systewious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text arguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science is scientists, artists and architects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  | ZK CESZ1,2,3 course  Z vritten and oral formation general and emizes and expanding statement, require based on these  Z s, features typical ince and technolog   | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French   |
| 04XCESZZK The course conte  04XFM1 French - intermedit will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds and scientific lar  04XFM3 The course is focus  | Czech for Foreigners Beginners - Examination  Into its 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.  French for Intermediate Students M1  atte FM The objective of this three-semester course is to improve and further develop communication in the French language in both vommunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to translate solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text acquired (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science scientists, artists and architects. Description of an object, device, shapes, dimensions, material.   | ZK CESZ1,2,3 course  Z vritten and oral formation general and emizes and expanding statement, require based on these  Z s, features typical ince and technolog  Z ordinate and infinit   | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French  2 ive clauses,   |
| 04XCESZZK The course conte  04XFM1 French - intermedit will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds and scientific lar  04XFM3 The course is focus participle structur  | Czech for Foreigners Beginners - Examination  Int 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.  French for Intermediate Students M1  ate FM The objective of this three-semester course is to improve and further develop communication in the French language in both was a solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text and guage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science is scientists, artists and architects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  seed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subsections).   | ZK CESZ1,2,3 course  Z vritten and oral formation general and emizes and expanding statement, require based on these  Z s, features typical ince and technolog  Z ordinate and infinitions. The paper is limited.  | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French  2 ive clauses, ked to the  |
| 04XCESZZK The course conte  04XFM1 French - intermedi will be able to co information and to skills gained in pret to an advert, 04XFM2 Course FM2 builds and scientific lar  04XFM3 The course is focus participle structur field of students' fu   | Czech for Foreigners Beginners - Examination  In it is the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 04X only be taken after successful completion of all three courses. Detailed information is to be obtained from the teacher.  French for Intermediate Students M1  atter FM The objective of this three-semester course is to improve and further develop communication in the French language in both wormunicate in social interaction and in academic, scientific and professional environment. They will be able to use the language to transolve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 French for Intermediate Students M2  on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science text arguage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, artists and architects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Students M3  seed on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subtrees, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-classes.  | ZK CESZ1,2,3 course  Z vritten and oral formation general and emizes and expanding statement, require based on these  Z s, features typical ince and technolog  Z ordinate and infinites. The paper is lincompiled from Free   | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French  2 ive clauses, ked to the ench articles  |
| 04XCESZZK The course conte  04XFM1 French - intermedit will be able to co information and to skills gained in pret to an advert,  04XFM2 Course FM2 builds and scientific lar  04XFM3 The course is focus participle structur field of students' fu   | Czech for Foreigners Beginners - Examination  In 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.  French for Intermediate Students M1  atter FM The objective of this three-semester course is to improve and further develop communication in the French language in both with solve problems. FM1 The course builds on and further develops linguistic competence acquired at secondary school. It revises, systevious 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 french cultures and competence acquired in previous study are systemized and expanded. Reading popular science texts are guage (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science scientists, artists and architects. Description of an object, device, shapes, dimensions, material.  French for Intermediate Student | ZK CESZ1,2,3 course  Z vritten and oral formonist general and emizes and expanding statement, require based on these  Z s, features typical ince and technolog  Z ordinate and infinitions. The paper is lincompiled from Free on and coherence.  ZK   | 4 s and can  2 m. Students technical Is language lest, answer texts.  2 for technical y, French  2 ive clauses, ked to the ench articles  |
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| 04XFP3 French for Advanded Students P3   | Z                   | 2           |
|--|---------------------|-------------|
| The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in enging  | •                   |             |
| 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 topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination.  | a technical /applie | d science   |
| 04XFPZK French for Advanced Students Examination   | ZK                  | 4           |
| The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and  |                     |             |
| Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grad  | ing.                | _           |
| 04XFZ1 French for Beginners Z1   | Z                   | 2           |
| 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 social   |                     |             |
| The course includes French for specific / technical communication and reading of popular science and scientific texts. FZ1 The objective is to be able to collevel, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdov   |                     | - 1         |
| (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, pers   | _                   |             |
| giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunc   | iation and gramm    | ar.         |
| 04XFZ2 French for Beginners Z2   | Z                   | 2           |
| The course is linking up with FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the te French for Beginners. Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement   |                     |             |
| thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communica   | _                   |             |
| How does the machine work? A few expressions concerning the study. Name of University and Faculty.   | · ·                 |             |
| 04XFZ3 French for Beginners Z3   | Z                   | 2           |
| The course builts upon FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - |                     | -           |
| Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for information pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts.   | mation and loud a   | s part or   |
| 04XFZ4 French for Beginners Z4   | Z                   | 2           |
| The course builds up on FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The conte   | _                   |             |
| 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 r  |                     | • •         |
| Students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, shopping country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet.   | •                   | sity in our |
| 04XFZ5 French for Beginners Z5   | Z                   | 2           |
| All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. They pres  | _                   |             |
| general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. Topic   | cs: on physics fror | n lecture   |
| notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate clau  | ses, typical conjur | nctions,    |
| 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   | 1                   |             |
| Instruction for examination. Its content covers the levels FZ1 - FZ5.  |                     |             |
| 04XNM1 German for Intermediate Students M1   | Z                   | 2           |
| The objective of the course is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and struword formation processes (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Republication.  |                     |             |
| environmental issues together with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicists, a  |                     |             |
| terminology. It develops communication on related topics and is aimed at correct pronunciation, grammatical correctness and understa   | ndability.          |             |
| 04XNM2 German for Intermediate Students M2   | Z                   | 2           |
| The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between the province of the 24st continued from the province of the continued from the continued from the province of the continued from the province of the continued from the province of the continued from the continue |                     | - 1         |
| the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and ca<br>practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematica   |                     |             |
| phenomena important for professional discourse (participles, relative clauses).  | , ,                 |             |
| 04XNM3 German for Intermediate Students M3   | Z                   | 2           |
| The course introduces other more complex grammatical structures and their application in communication based on technical texts, such as the relation between the course of the course o |                     | - 1         |
| the world at the beginning of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and ca<br>practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematica   | ٠,                  |             |
| phenomena important for professional discourse (participles, relative clauses).  | , g.                |             |
| 04XNMZK German for Intermediate Students Examination   | ZK                  | 4           |
| The course content is the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examination course is completed by an examination course in the study plan.   |                     |             |
| and oral, which cover the courses NM1 - NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessmen is to be obtained from the teacher.   | t. More detailed in | itormation  |
| 04XNP1 German for Advanced Students P1   | Z                   | 2           |
| This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled  | 1                   |             |
| course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for details)  | •                   |             |
| more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practi-<br>i.e., telephoning.   | cal everyday comn   | nunication, |
| 04XNP2 German for Advanced Students P2   | Z                   | 2           |
| The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending the   |                     |             |
| vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and pract  | tising formal comm  |             |
| both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect  |                     |             |
| 04XNP3   German for Advanced Students P3  The course consists of 3 main parts (general communicative cituations, grammar and technical topics). Students will develop their vessibulary in a variety   | Z                   | 2           |
| The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary in a variety   |                     |             |
| nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By  | , ,                 |             |
| students are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The countries are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The countries are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The countries are trained to process information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form.   | urse also includes  | translation |
| practice to and from German.   |                     |             |

| 04XNPZK  | German for Advanced Students Examination   | ZK   | 4  |
|--|--|--|--|
| The course conten  | it is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination c   | onsisting of two pai   | rts - written  |
| and oral, which o  | over the courses NP1 - NP3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded   | l assessment. More   | e detailed   |
|  | information is to be obtained from the teacher.  |  |  |
| 04XRM1   | Russian for Intermediate Students M1   | Z  | 2  |
| The course is design   | ned for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (   | both printed and ha  | andwritten),   |
| -  | or communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking   |  |  |
| they can use bas   | sic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement l   |  | urse. The  |
|  | contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetab  |  |  |
| 04XRM2   | Russian for Intermediate Students M2   | Z  | 2  |
|  | The course is based on the RM1 course, its contents and scope correspond roughly to RZ4, however, for half of the time allotted in the   | e timetable.   |  |
| 04XRM3   | Russian for Intermediate Students M3   | Z  | 2  |
| The course develop   | os the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, howe   | ver, for half of the t   | ime allotted   |
|  | in the timetable.  |  |  |
| 04XRMZK  | Russian for Intermediate Students Examination  | ZK   | 4  |
|  | It is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled   | -  |  |
|  | lents are eligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given inst   |  |  |
| 04XRP1   | Russian for Advanced Students P1   | Z  | 2  |
| The entrance req   | uirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures, practice of the course is revision of standard language structures.  | ticing more difficult  | grammar  |
|  | structures, understanding the fundamentals of technical language and training writing skills.  |  |  |
| 04XRP2   | Russian for Advanced Students P2   | Z  | 2  |
| The course is bas  | sed on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ve  | rb aspects, specific   | c syntactic  |
| 0.41/10.00   | structures). Stress is put on independent oral and written communication.  |  |  |
| 04XRP3   | Russian for Advanced Students P3   | Z  | 2  |
|  | ed on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing   |  |  |
|  | od previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The   | · · · · · · · · · · · · · · · · · · ·  |  |
|  | er study is aimed at professional and technical skills (reading technical literature according to the students´ specialization, oral and wi<br>chnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write acc   |  |  |
| develop their subte  | technical topics.  | diately and with col   | iliderice on   |
| 04XRPZK  | Russian for Advanced Students Examination  | ZK   | 4  |
|  | t is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled  | l l  |  |
|  | 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   | 7  | 2  |
| -  | ents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian   | ا<br>Thus it begins with.  |  |
|  | pet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking   |  |  |
|  |  |  |  |
|  | a short text with marked stress, understand its contents and summarize it.   |  |  |
| 04XRZ2   |  | Z  | 2  |
| 04XRZ2 The second semes  | a short text with marked stress, understand its contents and summarize it.  Russian for Beginners Z2  ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte  | - 1  | _  |
| The second semes   | Russian for Beginners Z2   | chnical texts. Stud  | ents will be   |
| The second semes   | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte   | chnical texts. Stud<br>develop their voca  | ents will be   |
| The second semes   | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also  | chnical texts. Stud<br>develop their voca  | ents will be   |
| The second semes able to communicate 04XRZ3  | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in  | echnical texts. Stud<br>o develop their voca<br>writing.   | ents will be abulary and   |
| The second semes able to communica  04XRZ3  The course is base   | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3   | chnical texts. Stud<br>o develop their voca<br>writing.  Z various forms of re   | ents will be abulary and 2 eading skills   |
| The second semes able to communica  04XRZ3  The course is base   | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training   | chnical texts. Stud<br>o develop their voca<br>writing.  Z various forms of re   | ents will be abulary and 2 eading skills   |
| The second semes able to communica  04XRZ3  The course is base   | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be  | chnical texts. Stud<br>o develop their voca<br>writing.  Z various forms of re   | ents will be abulary and 2 eading skills   |
| The second semes able to communicate to communicate to communicate to communicate the course is base and listening) and O4XRZ4 The course is base  | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in  Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a c   | echnical texts. Studio develop their voca writing.  Z various forms of reable to respond so  Z ertain percentage of  | ents will be abulary and 2 eading skills o as to be 2 of unfamiliar  |
| The second semes able to communicate to communicate to communicate to communicate the course is base and listening) and the course is base words, oral communicate to communicate the course is base words, oral communicate to communicate the course is base words, oral communicate the course is base and course is base words, oral communicate the course is base and course is base | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in  Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training training to spoken standing longer texts with a controllar training to spoken standing longer texts with a controllar training t | echnical texts. Stude of develop their voca writing.  Z various forms of reable to respond so  Z ertain percentage of, differences in vertice.   | ents will be abulary and 2 eading skills o as to be 2 of unfamiliar to patterns  |
| The second semes able to communicate to communicate to communicate to communicate the course is base and listening) and the course is base words, oral communicate the course is base and the course is base words, oral communicate the course is base words.  | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in  Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a control of the provided situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), as   | echnical texts. Stude of develop their voca writing.  Z various forms of reable to respond so  Z ertain percentage of differences in verland practice oral an  | ents will be abulary and 2 eading skills o as to be 2 of unfamiliar to patterns d written  |
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| The second semes able to communical O4XRZ3 The course is base and listening) an O4XRZ4 The course is base words, oral comm from Czech, mo communication communication of the comm | Russian for Beginners Z2 ster of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subte te using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in  Russian for Beginners Z3 d on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training d introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking.  Russian for Beginners Z4 d on RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a control in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs dality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and on 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.   | echnical texts. Stude of develop their voca writing.  Z various forms of reable to respond so  Z ertain percentage of differences in verland practice oral an , Siberia), learn ho   | ents will be abulary and  2 eading skills as to be  2 of unfamiliar to patterns d written w to fill in   |
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| 04XSP1   |  |  |  |
|--|--|--|--|
| l Course concentrat  | Spanish for Advanced Students P1 es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication.  | Course prerequisit   | tes: level B2  |
| Course concentrat  | of CEFR.   | Course prerequisit   | ies. ievei bz  |
| 04XSP2   | Spanish for Advanced Students P2   | Z  | 2  |
| Course XSP2 is the   | e second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta<br>written communication.  | ix and focuses on i  | ndependent   |
| 04XSP3   | Spanish for Advanced Students P3   | Z  | 2  |
| Course XSP3 is the   | e final part of the advanced Spanish course. It is based on texts chosen by the students according to their future specialization. It is focu<br>based on what students will need in their career.   | used on written con  | nmunication  |
| 04XSPZK  | Spanish for Advanced Students Examination  | ZK   | 4  |
| hav  | ent is the examination as given by the study plan. Examination XSPZK consists of two parts, namely oral and written. The prerequisite<br>ing passed the written test. Examination content is based on syllabi of courses XSP1, XSP2, and XSP3 or on an individual study plan   |  | oral part is   |
| 04XSZ1   | Spanish for Beginners Z1   | Z  | 2  |
|  | ne first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundam<br>to 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  |
|  | ased on course XSZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures and 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.   |  |  |
| 04XSZ3   | Spanish for Beginners Z3   | Z  | 2  |
|  | s upon the foundations established in course XSZ2 and further develops students vocabulary and grammatical competence. It include  | . – .  | ļ.   |
|  | kt of Spanish-speaking countries, with a primary focus on Spain. Particular attention is given to key grammatical structures, including t  |  | -  |
| indefinido, pretérit   | o imperfecto, the gerund, and the imperative. The course also focuses on both written and spoken communication on general topics.<br>through targeted reading and listening activities.  | Students are prepa   | ared for this  |
| 04XSZ4   | Spanish for Beginners Z4   | Z  | 2  |
|  | ed on course XSZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish   |  |  |
| Spain. It pays atte  | ention to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the   | -  | ubjunctive),   |
| 04XSZ5   | to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenir  Spanish for Beginners Z5  | 7  | 2  |
|  | are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish fo   | _  | _  |
|  | part, the general Spanish course based on the course book will end with a written and oral examination.  |  | 1  |
| 04XSZZK  | Spanish for Beginners Examination  | ZK   | 3  |
| The course cont  | ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral ex passed the written examination test.   | amination only if n  | e/sne nas  |
| 04YAPI   | Presentation Course  | Z  | 2  |
|  | pare students for presenting issues in their field by mastering the strategies and techniques of oral presentation. The course includes of   | discussions (expres  | eeina viewe  |
| comments, agreen   |  |  | -  |
| . •  | nent, disagreement). Students will be able to respond to comments on their presentation and answer questions addressed to them aft<br>skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writing  | er the presentation  | -  |
| 12YPOAL  | skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writin   | er the presentation<br>g a paper.  | -  |
| 12YPOAL<br>Lisp, representatio   | · · · · · · · · · · · · · · · · · · ·  | ter the presentation<br>og a paper.<br>KZ  | n, which is a  |
| Lisp, representatio divisor, resultant,  | skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writin  Computer Algebra  n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, si derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subst   | ter the presentation g a paper. KZ implification, greate titution and pattern  | 2 est common matching,   |
| Lisp, representatio<br>divisor, resultant,<br>algebraic programi   | skill required for the defence of the Bachelor Project. Students will learn the basic structure of a Bachelor Project and rules for writin  Computer Algebra  n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, si derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subst ming, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyr   | ter the presentation g a paper. KZ implification, greate titution and pattern  | 2 est common matching, miniproject.  |
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| 18YPJ              | Programming in Java   | Z,ZK                   | 5            |
|--------------------|---|------------------------|--------------|
| 10110              | This course is devoted to the Java platform and to the development of the basic types of applications for this platform.                  | 2,21                   |              |
| 18YPMTL            | Programming in MATLAB   | KZ                     | 4            |
| Introducing Matlab | environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analyst     | sis, statistics, algoi | rithmization |
|                    | and geometric representation of results.  |                        |              |
| 18YPRC1            | Programming in C++ 1  | Z                      | 4            |
|                    | This course covers mainly the C programming language and non-object oriented features of the C++ language.                                |                        | •            |
| 18YPRC2            | Programming in C++ 2  | KZ                     | 4            |
| This co            | ourse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard             | Template Library.      |              |
| 18YPW              | Web environment and markup languages  | KZ                     | 2            |
| The course intro   | oduces students to fundamental principles and best practices for web design with respect to technical functionality, informational values | e, readability and     | usability.   |
| 18YZALG            | Basics of Algorithmization  | Z,ZK                   | 4            |
| This course is     | devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of         | the algorithm com      | plexity.     |
| 18YZPRO            | Basics of Programming   | Z                      | 4            |
| This course is in  | ntended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program  | nming and with the     | Python       |
|                    | programming language.   |                        |              |
| TV-1               | Physical Education  | Z                      | 1            |
| TV-2               | Physical Education  | Z                      | 1            |
| TV-3               | Physical education  | Z                      | 1            |
| TV-4               | Physical education  | Z                      | 1            |

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-08-09, time 19:26.