Study plan

Name of study plan: BS Experimentální jaderná a ásticová fyzika

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Applications of Natural Sciences

Type of study: Bachelor full-time

Required credits: 118
Elective courses credits: 62
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 118

History of Physics 1

The role of the block: PO

Code of the group: BSEJ FPP1

Name of the group: BSEJ F - povinné p edm ty 1. ro ník

Requirement credits in the group: In this group you have to gain at least 32 credits

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

Credits in the group: 32 Note on the group:

02DEF1

| Note on the g | · • | | 1 | 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 |
| 02DEF1 | History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.) | Z | 2 | 2+0 | Z | РО |
| 02ELMA | Electricity and Magnetism Iskender Yalcinkaya, Goce Chadzitaskos, Josef Schmidt, Jan Vysoký Jan Vysoký Goce Chadzitaskos (Gar.) | Z,ZK | 6 | 4+2 | L | РО |
| 02EXF1 | Experimental Physics 1 Jan epila | Z | 2 | 2+0 | L | РО |
| 02MECH | Mechanics Iskender Yalcinkaya, David B e Michal Jex David B e (Gar.) | Z | 4 | 4+2 | Z | РО |
| 02MECHZ | Mechanics - Examination Iskender Yalcinkaya, Goce Chadzitaskos, David B e , Filip Petrásek, Stanislav Skoupý, Antonín Hoskovec, Petr Novotný Antonín Hoskovec David B e (Gar.) | ZK | 2 | - | Z | PO |
| 15CH1 | General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z | 3 | 2+1 | Z | РО |
| 15CH2 | General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z,ZK | 3 | 2+1 | L | РО |
| 00PT | Preparatory Week Petr Ambrož, Milan Krbálek Petr Ambrož Petr Ambrož (Gar.) | Z | 2 | týden | Z | РО |
| 02TER | Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.) | Z,ZK | 4 | 2+2 | L | РО |
| 18ZPRO | Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.) | Z | 4 | 4C | Z | PO |

Characteristics of the courses of this group of Study Plan: Code=BSEJ FPP1 Name=BSEJ F - povinné p edm ty 1. ro ník

| Physics and its place in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philosophers, Aristotle. Physics in |
|--|
| Helenistic period, Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, Huygens. The birth of physics |
| as experimental science. Newton and his work. |

2

02ELMA | Electricity and Magnetism | Z,ZK | 6 |
Electric charge, Coulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, conductivity. Basics of the relativity

theory. Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, Maxwell equations

02EXF1 | Experimental Physics 1 | Z

Lecture represents an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and methods of measurement evaluation.

| 02MECH | Mechanics | Z | 4 |
|---|---|---|--|
| ntroduction to physic | s, physical quantities and units. Particle kinematics, basic types of motion and theirsuperposition. Particle dynamics, one-dimen | sional equations o | f motion, motion |
| in central force field, | forces innoninertial reference frames. Mechanics of system of free particles, two-body problem, collisions. Mechanics ofrigid bo | dy, rotation. Funda | amentals of |
| continuum mechanic | s, elasticity, hydrodynamics. Sound. | | |
| 02MECHZ | Mechanics - Examination | ZK | 2 |
| The content of the su | bject is the examination according to the plan of studies. | ' | |
| 15CH1 | General Chemistry 1 | Z | 3 |
| The most important of | concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practic | cal use are illustra | ted by examples |
| | | | |
| solved in exercises. | | | |
| solved in exercises. | General Chemistry 2 | Z,ZK | 3 |
| 15CH2 | General Chemistry 2 ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us | 1 ' 1 | - |
| 15CH2 The subject is the co | | ing various examp | les, the fact that |
| 15CH2 The subject is the co | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us | ing various examp | les, the fact that |
| 15CH2 The subject is the co | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us | ing various examp | les, the fact that |
| 15CH2 The subject is the cothe validity of these print exercises. | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us rinciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles | ing various examp | les, the fact that examples solved |
| 15CH2 The subject is the co the validity of these p in exercises. 00PT 02TER | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles Preparatory Week | are illustrated by e | examples solved |
| 15CH2 The subject is the co the validity of these p in exercises. 00PT 02TER Thermal expansion of | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us trinciples is not restricted only to chemical processes is documented. The significance and practical use of explained principles Preparatory Week Heat and Molecular Physics | ing various example are illustrated by a ZZZK | eles, the fact that examples solved 2 4 al and real gas, |
| 15CH2 The subject is the co the validity of these p in exercises. 00PT 02TER Thermal expansion of | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles. Preparatory Week Heat and Molecular Physics If materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynal systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity | ing various example are illustrated by a ZZZK | eles, the fact that examples solved 2 4 al and real gas, |
| 15CH2 The subject is the co the validity of these p in exercises. 00PT 02TER Thermal expansion of entropy; non-chemical | ntinuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Us principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles Preparatory Week Heat and Molecular Physics If materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodyn | ing various example are illustrated by example ZZZK amic principle, ide distribution, equip | les, the fact that examples solved 2 4 al and real gas, artition theorem. |

Code of the group: BSEJ FPP2

Name of the group: BSEJ F - povinné p edm ty 2. ro ník

Requirement credits in the group: In this group you have to gain at least 32 credits

Requirement courses in the group: In this group you have to complete at least 7 courses

Credits in the group: 32 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 |
|--------|--|------------|---------|-------|----------|------|
| 02EXF2 | Experimental Physics 2 | ZK | 2 | 2+0 | Z | РО |
| 02PRA1 | Experimental Laboratory 1 Libor Škoda, Katarína K ížková Gajdošová, Barbara Antonina Trzeciak, Jaroslav Biel ík Jaroslav Biel ík Jaroslav Biel ík (Gar.) | KZ | 6 | 0+4 | Z | РО |
| 02PRA2 | Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.) | KZ | 6 | 0+4 | L | РО |
| 02TEF1 | Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.) | Z,ZK | 4 | 2+2 | Z | РО |
| 02TEF2 | Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.) | Z,ZK | 4 | 2+2 | L | РО |
| 02TSFA | Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.) | Z,ZK | 4 | 2+2 | L | PO |
| 02VOAF | Waves, Optics and Atomic Physics Josef Schmidt, Petr Novotný Jan Vysoký Ji í Tolar (Gar.) | Z,ZK | 6 | 4+2 | Z | РО |

Characteristics of the courses of this group of Study Plan: Code=BSEJ FPP2 Name=BSEJ F - povinné p edm ty 2. ro ník

| Cital acteristics | of the courses of this group of otday fram. Code=Bolto 1112 Name=Bolto 11 - povinine p e | uni ty z. 10 i | IIK | | | |
|---|---|-----------------------|-------------------|--|--|--|
| 02EXF2 | Experimental Physics 2 | ZK | 2 | | | |
| Lecture represents an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and methods of measurement evaluation | | | | | | |
| 02PRA1 | Experimental Laboratory 1 | KZ | 6 | | | |
| Lecture is intended e | Lecture is intended especially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclear Engineering). But it can be also | | | | | |
| attended by students interested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work with theliterature), the implementation | | | | | | |
| of the measurement (| acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and eval | uation of results. A | At the same time | | | |
| practically extendthe | knowledge gained in lectures on physics. | | | | | |
| 02PRA2 | Experimental Laboratory 2 | KZ | 6 | | | |
| Lecture is intended e | specially for students who intend to study some of the physical specializations of FNSPE(branch Physical Engineering, Nuclea | r Engineering). Bu | ıt it can be also | | | |
| attended by students i | nterested in the otherspecializations. In Experimental laboratory students learn how to prepare for experiments (including work wit | h theliterature), the | e implementation | | | |
| of the measurement (| acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and eval | uation of results. A | At the same time | | | |
| practically extendthe | knowledge gained in lectures on physics. | | | | | |
| 02TEF1 | Theoretical Physics 1 | Z,ZK | 4 | | | |
| The course is an intro | duction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formal | ism as well as dife | rent approaches | | | |
| to description of dyna | to description of dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary examples like the two-body | | | | | |
| problem, the motion of | of a system of constrained mass points, and of a rigid body. Advanced parts of the course cover differential and integral principl | es of mechanics. | The subject is | | | |

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.

02TSFA Thermodynamics and Statistical Physics Z,ZK 4
Foundation of thermodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelier principle. Statistical entropy.

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

02VOAF Waves, Optics and Atomic Physics Z,ZK 6
Wave phenomena in mechanics and electromagnetism: modes, standing and travelling waves, wave packets indispersive media. Wave optics: polarization, interference, diffraction, coherence. Geometrical optics. Introduction toquantum physics: black body radiation, quantum of energy, photoeffect, the Compton effect, the de Broglie waves, the Schrodinger equation, stationary states and spectra of finite systems.

Code of the group: BSEJ FPP3

Name of the group: BSEJ F - povinné p edm ty 3. ro ník

Requirement credits in the group: In this group you have to gain at least 54 credits

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

Credits in the group: 54 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 |
|---------|---|------------|---------|-------|----------|------|
| 02BPEF1 | Bachelor Thesis 1 Jaroslav Biel ík Vojt ch Petrá ek (Gar.) | Z | 5 | 0+5 | Z | РО |
| 02BPEF2 | Bachelor Thesis 2 Jaroslav Biel ík Vojt ch Petrá ek (Gar.) | Z | 10 | 0+10 | L,Z | РО |
| 02DPD | Detectors and Principles of Particle Detection Martin Štefa ák | ZK | 4 | 4+0 | | РО |
| 02IJZ | Interaction of Ionisation Radiation Martin Štefa ák | Z,ZK | 4 | 2+2 | Z | РО |
| 02KVAN | Quantum Mechanics Martin Štefa ák Martin Štefa ák Martin Štefa ák (Gar.) | Z,ZK | 6 | 4+2 | Z | РО |
| 02KVA2B | Quantum Mechanics 2 Jan epila | Z,ZK | 6 | 4+2 | L | РО |
| 01MMF | Methods of Mathematical Physics Pavel Š oví ek | Z,ZK | 6 | 4+2 | L | РО |
| 01RMF | The Equations of Mathematical Physics Václav Klika Václav Klika (Gar.) | Z,ZK | 6 | 4+2 | Z | РО |
| 02SF | Subatomic Physics Jan epila Jan epila (Gar.) | Z,ZK | 6 | 4+2 | Z | РО |
| 02SF2 | Subatomic Physics 2 Petr Chaloupka Martin Štefa ák Petr Chaloupka (Gar.) | Z,ZK | 6 | 4+2 | L | РО |
| 02EJFS1 | Workshop on Experimental Nuclear Physics 1 Jaroslav Biel ík | Z | 1 | 5dní | Z | РО |

| | Jaroslav Biel ik | | | | |
|-----------------------|--|----------------------|-----------------|---------------------------|-------------------|
| Characteristics | s of the courses of this group of Study Plan: Code=BSEJ FPP3 Na | me=BSEJ F - | povinné | p edm ty 3. ro | ník |
| 02BPEF1 | Bachelor Thesis 1 | | | Z | 5 |
| The bachelor projec | ct is based on a topic approved by the administrators of the programme, department and by th | e dean. The studen | it is guided by | y the project supervis | or during commo |
| egular meetings ar | nd discussions. | | | | |
| 02BPEF2 | Bachelor Thesis 2 | | | Z | 10 |
| The bachelor projec | ct is based on a topic approved by the administrators of the programme, department and by th | e dean. The studen | it is guided by | y the project supervis | or during commo |
| egular meetings ar | nd discussions. | | | | |
| D2DPD | Detectors and Principles of Particle Detection | | | ZK | 4 |
| Γhe lectures introdu | uce the main forms of interaction of some particles with matter. The goal is that the student g | ets an overview of | what type of | processes are possib | ble and in which |
| situations they may | be dominant. Some applications to Medicine and to study the fundamental structure of matter | er are presented. | | | |
|)2IJZ | Interaction of Ionisation Radiation | | | Z,ZK | 4 |
| The lecture is divide | ed to a description of the heavy and light charged particles passage through a matter, then the | interaction of phot | ons and neut | trons as typical repres | sentants of neutr |
| particles. The lectur | re is an introduction to the calculation exercise which is the carrying part of the subject. A stu | dent learns solution | n of typical p | roblems and gets an | experience in a |
| use and typical valu | ues of the variables defined in the practical and experimental nuclear physics. | | | | |
| 02KVAN | Quantum Mechanics | | | Z,ZK | 6 |
| The lecture describ | es the birth of quantum mechanics and description of one particle and more particles by elec | nents of the Hilber | t space as w | ell as its time evolution | on. Besides that |
| ncludes descriptior | n of observable quantities by operators in the Hilbert space and calculation of their spectra. | | | | |
| D2KVA2B | Quantum Mechanics 2 | | | Z,ZK | 6 |
| Symmetry in quanto | um mechanics, invariance and conservation laws, approximate methods, scattering theory, s | ystems of identical | particles | • | • |
| 01MMF | Methods of Mathematical Physics | | | Z,ZK | 6 |
| The course provide | s an introduction to the theory of distributions with applications to solutions of partial different | ial equations with o | constant coef | ificients, further the Fr | redholm theoren |
| are discussed for th | ne case of a continuous kernel on a compact set as well as Sturm-Liouville operators on bour | nded intervals, and | l applications | of the separation of | variables metho |
| o the solution of so | ome boundary value problems and mixed problems. | | | | |
| 01RMF | The Equations of Mathematical Physics | | | Z,ZK | 6 |
| The subject of this | course is solving integral equations, theory of generalized functions, classification of partial d | ifferential equation | s, theory of i | ntegral transformation | ns, and solution |
| | | | | | |

partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE).

Subatomic Physics

The goal of these lectures is to present basic knowledge of particle physics. Students will become familiar with the structure of the matter, with elementary interactions and with basic laws of microcosmos. Lectures will include basics of quantum mechanics and the theory of relativity needed for the description of elementary particles behavior. Students will also become familiar with basic accelerating principles and with current particle physics experimental centers.

Subatomic Physics 2

The aim of the course is to teach students the basics of physics of atomic nucleus. Students will acquire knowledgeabout the basic properties of atomic nuclei and the way they can be measured. They will learn basic models, whichdescribe the structure of the atomic nucleus and nuclear reactions. Part of the lectures is also getting familiar with thephysics of the cosmic radiation and applications of nuclear physics

Workshop on Experimental Nuclear Physics 1

Ζ

Students of the 3-th and 4-th course will present on this workshop status of their Bachelor and Research works. At the same time they will obtain an overview of the scientific program of the department of physics in direction of experimental nuclear physics and related fields.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 0

The role of the block: PV

Code of the group: BSSPOLVEDY

Name of the group: BS - Social Sciences

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

Only one of these courses is obligatory.

| i toto on the g | iloup. | | J. | | | |
|-----------------|---|------------|---------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| 00EKOT | Economy in Technology Jana Ková ová | Z | 1 | 2+0 | | PV |
| 00ETV | Ethics of Science and Technology Jakub Hají ek Jana Ková ová | Z | 1 | 0+2 | L | PV |
| 00RET | Rhetoric Jana Ková ová Jana Ková ová | Z | 1 | 0+2 | | PV |
| 00UPRA | Introduction to Law Martin ech Jana Ková ová | Z | 1 | 0+2 | | PV |
| 00UPSY | Introduction to Psychology Jakub Hají ek Jana Ková ová | Z | 1 | 0+2 | | PV |

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

| 00EKOT | Economy in Technology | Z | 1 |
|-------------------|---|---|---|
| The course introd | uces the basics of micro- and macroeconomics. | | |
| 00ETV | Ethics of Science and Technology | Z | 1 |
| 00RET | Rhetoric | Z | 1 |
| | used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the proverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an | • | |
| 00UPRA | Introduction to Law | Z | 1 |
| 00UPSY | Introduction to Psychology | Z | 1 |

Code of the group: BSMALA

Name of the group: BS - analýza a algebra

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

| riote 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 |
| 01DIFR | Differential Equations Michal Beneš Michal Beneš (Gar.) | Z,ZK | 4 | 2P+2C | L | PV |
| 01LALA | Linear Algebra A 1, Examination Petr Ambrož | ZK | 5 | - | | PV |
| 01LAA2 | Linear Algebra A2 Lubomíra Dvo áková | Z,ZK | 6 | 2+2 | L | PV |
| 01LALB | Linear Algebra B 1, Examination Lubomíra Dvo áková | ZK | 3 | - | | PV |

| 01LAB2 | Linear Algebra B2 Petr Ambrož | Z,ZK | 4 | 1+2 | L | PV |
|--------|---|------|----|-------|---|----|
| 01LAP | Linear Algebra Plus Lubomíra Dvo áková | Z,ZK | 5 | 1+1 | Z | PV |
| 01LA1 | Linear Algebra 1 Lubomíra Dvo áková | Z | 1 | 2+1 | Z | PV |
| 01LAL | Linear Algebra 1 Petr Ambrož, Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | Z | 2 | 2P+2C | | PV |
| 01LNA1 | Linear Algebra 1 Lubomíra Dvo áková | Z | 2 | 2+2 | | PV |
| 01LAZ | Linear Algebra 1, Examination Lubomíra Dvo áková | ZK | 2 | - | Z | PV |
| 01MANA | Calculus A 1, Examination Severin Pošta | ZK | 6 | - | | PV |
| 01MAA2 | Calculus A2 Edita Pelantová | Z,ZK | 10 | 4+4 | L | PV |
| 01MAA3 | Calculus A3 František Štampach | Z,ZK | 10 | 4+4 | Z | PV |
| 01MAA4 | Calculus A4 František Štampach František Štampach (Gar.) | Z,ZK | 10 | 4+4 | L | PV |
| 01MANB | Calculus B 1, Examination Severin Pošta | ZK | 4 | - | | PV |
| 01MAB2 | Calculus B2 Severin Pošta | Z,ZK | 7 | 2+4 | L | PV |
| 01MAB3 | Calculus B3 Milan Krbálek Milan Krbálek Milan Krbálek (Gar.) | Z,ZK | 7 | 2+4 | Z | PV |
| 01MAB4 | Calculus B4 Milan Krbálek, Ji í Mikyška, Miroslav Kolá Milan Krbálek Milan Krbálek (Gar.) | Z,ZK | 7 | 2+4 | L | PV |
| 01MAP | Calculus Plus Mat j Tušek | ZK | 6 | 0 | Z | PV |
| 01MA1 | Calculus 1 Mat j Tušek | Z | 4 | 4+4 | Z | PV |
| 01MAN | Calculus 1 Pavel Strachota, Miroslav Kolá, Edita Pelantová Pavel Strachota Edita Pelantová (Gar.) | Z | 4 | 4+4 | | PV |
| 01MAZ | Calculus 1, Examination Mat j Tušek | ZK | 4 | - | Z | PV |
| 01NUM1 | Numerical Mathematics 1 | Z,ZK | 4 | 3+1 | Z | PV |
| 12NME1 | Numerical Methods 1 Pavel Váchal Pavel Váchal (Gar.) | Z,ZK | 4 | 2+2 | L | PV |
| 01VYMA | Selected Topics in Mathematics Ji í Mikyška Ji í Mikyška Ji í Mikyška (Gar.) | Z,ZK | 4 | 2+2 | L | PV |

Characteristics of the courses of this group of Study Plan: Code=BSMALA Name=BS - analýza a algebra

| 01DIFR Differential Equations | z,ZK | 4 |
|---|--|---------------|
| The course contains introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable | | y, solution o |
| linear types of equations and introduction in the theory of boundary-value problems. | | |
| 01LALA Linear Algebra A 1, Examination | ZK | 5 |
| 01LAA2 Linear Algebra A2 | Z,ZK | 6 |
| The subject is devoted to the theory of linear operators on vector spaces (mainly equipped with scalar product). In the same ti | me we introduce the corresponding matrix t | heory. |
| 01LALB Linear Algebra B 1, Examination | ZK | 3 |
| 01LAB2 Linear Algebra B2 | Z,ZK | 4 |
| The subject summarizes the most important notions and theorems related to the matrix theory, to the study of vector spaces v | with a scalar product and to the linear geom | etry. |
| 01LAP Linear Algebra Plus | Z,ZK | 5 |
| The subject summarizes the most important notions and theorems related to the study of vector spaces. | · | |
| 01LA1 Linear Algebra 1 | Z | 1 |
| The subject summarizes the most important notions and theorems related to the study of vector spaces. | <u>'</u> | |
| 01LAL Linear Algebra 1 | Z | 2 |
| 1. Vector space. 2. Linear dependence and independence. 3. Basis and dimension. 4. Subspaces of vector spaces. 5. Linear m | nappings. 6. Matrices of linear mappings. 7. | Frobenius |
| theorem. | | |
| 01LNA1 Linear Algebra 1 | Z | 2 |
| The subject summarizes the most important notions and theorems related to the study of vector spaces. | <u> </u> | |
| 01LAZ Linear Algebra 1, Examination | ZK | 2 |
| The content of this subject is the exam in Linear Algebra 1. | <u> </u> | |
| 01MANA Calculus A 1, Examination | ZK | 6 |
| Examination of knowledge about stuff lectured in the 01MAN course. | · ' ' | |
| 01MAA2 Calculus A2 | Z,ZK | |
| | er series and the power series | 10 |
| The subject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the numb | or correct and the power correct | 10 |
| The subject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the numb 01MAA3 | Z,ZK | 10 |
| | · | |
| 01MAA3 Calculus A3 | · | |

| 01MANB | Calculus B 1, Examination | ZK | 4 |
|--|--|-----------------------------------|----------------|
| Examination of kno | owledge about stuff lectured in the 01MAN course. | ' | |
| 01MAB2 | Calculus B2 | Z,ZK | 7 |
| Basic calculus (rea | al analysis, indefinite and definite integrals and series). | | |
| 01MAB3 | Calculus B3 | Z,ZK | 7 |
| The course is devo | sted to functional sequences and series, theory of ordinary differential equations, theory of quadratic forms and surfaces paces. | s, and general theory of metric s | paces, norme |
| 01MAB4 | Calculus B4 | Z,ZK | 7 |
| The course is devo | oted properties of functions of several variables, differential and integral calculus. Furthermore, the measure theory an | d theory of Lebesgue integral is | s studied. |
| 01MAP | Calculus Plus | ZK | 6 |
| 01MA1 | Calculus 1 | Z | 4 |
| Basic course of rea | al analysis (functions of one real variable, differential calculus). | ' ' | |
| 01MAN | Calculus 1 | Z | 4 |
| Basic calculus (rea | al analysis, functions of one real variable, differential calculus). | | |
| 01MAZ | Calculus 1, Examination | ZK | 4 |
| 01NUM1 | Numerical Mathematics 1 | Z,ZK | 4 |
| The course introdu theoretical method | ices to numerical methods for solving the basic problems arising from technical and research problems. The accent is is. | put on a good understanding o | f the root of |
| 12NME1 | Numerical Methods 1 | Z,ZK | 4 |
| There are explaine | ed the basic principles of numerical mathematics important for numerical solving of problems important for physics and | technology. Methods for solution | n of tasks ver |
| important for physi- | cists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integr | rated computational environmer | nt MATLAB is |
| used as a principle | programming language as a demonstration tool. The seminars are held in computer laboratory. | | |
| 01VYMA | Selected Topics in Mathematics | Z,ZK | 4 |
| | plete orthogonal systems, expansion of functions into Fourier series, trigonometric Fourier series and their convergenc Cauchy's theorem, Cauchy's integral formula, singularities, Laurent series, residue theorem. | e. Complex analysis: derivative | of holomorphi |

Code of the group: BSJAZYKY

Name of the group: BS - 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) | Completion | Credits | Scope | Semester | Role |
|----------|---|------------|---------|-------|----------|------|
| | Tutors, authors and guarantors (gar.) | | | | | |
| 04AMZK | English for Intermediate Students Examination Jana Ková ová, Slav na Brownová, Hana ápová Jana Ková ová Hana ápová (Gar.) | ZK | 4 | | Z | PV |
| 04APZK | English for Advanced Students Examination Slav na Brownová, Darren Copeland | ZK | 5 | | Z | PV |
| 04CESMZK | Czech for Intermediate Students Examination Jana Ková ová Jana Ková ová | ZK | 4 | | Z | PV |
| 04CESPZK | Czech for Foreign Students - Advanced Examination Jana Ková ová | ZK | 5 | | Z | PV |
| 04FMZK | French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.) | ZK | 4 | | Z | PV |
| 04FPZK | French for Intermediate Students Examination V ra Šlechtová V ra Šlechtová (Gar.) | ZK | 5 | | Z | PV |
| 04FZZK | French for Beginners Examination V ra Šlechtová V ra Šlechtová V ra Šlechtová (Gar.) | ZK | 3 | | L | PV |
| 04NMZK | German for Intermediate Students Examination Miloslava echová Miloslava echová (Gar.) | ZK | 4 | | Z | PV |
| 04NPZK | German for Advanced Students Examination Miloslava echová Miloslava echová Miloslava echová (Gar.) | ZK | 5 | | Z | PV |
| 04RMZK | Russian for Intermediate Students Examination Zhanna Isaeva Jana Ková ová Zhanna Isaeva (Gar.) | ZK | 4 | | Z | PV |
| 04RPZK | Russian for Intermediate Students Examination Zhanna Isaeva Zhanna Isaeva (Gar.) | ZK | 5 | | Z | PV |
| 04RZZK | Russian for Beginners Examination Zhanna Isaeva Miloslava echová Zhanna Isaeva (Gar.) | ZK | 3 | | L | PV |
| 04SMZK | Spanish for Intermediate Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | ZK | 4 | | Z | PV |
| 04SPZK | Spanish for Advanced Students Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | ZK | 5 | | Z | PV |
| 04SZZK | Spanish for Beginners Examination Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | ZK | 3 | | L | PV |

Characteristics of the courses of this group of Study Plan: Code=BSJAZYKY Name=BS - languages

| 04AMZK | | | |
|--|--|--|--|
| J 17 (1111—1 (| English for Intermediate Students Examination | ZK | 4 |
| The course content is | the examination as given by the study plan. The examination covers the 04AM1, 04AM2, and 04AM3 courses and consists of | two parts - written | (100 min) and |
| oral (20-30 min). The | student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge gained in the three Englisl | h courses. | |
|)4APZK | English for Advanced Students Examination | ZK | 5 |
| he course content is | the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syllabus and the a | bility to apply their | knowledge |
| btained in the three (| 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral presentation of | a topic from the st | udent's field o |
| tudy. | | | |
| 4CESMZK | Czech for Intermediate Students Examination | ZK | 4 |
| he course content is | the examination as given by the study plan. The examination consisting of a written and oral part covers all the topics of the 0- | 4CESM1,2,3 cours | es and can on |
| e taken after success | sful completion of the 3 courses. Detailed information is to be obtained from the teacher. | | |
| 4CESPZK | Czech for Foreign Students - Advanced Examination | ZK | 5 |
| he 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 | 4CESP1,2,3 cours | es and can on |
| e taken after success | sful completion of the 3 courses. Detailed information is to be obtained from the teacher. | | |
|)4FMZK | French for Intermediate Students Examination | ZK | 4 |
| | mination as given by the study programme. The whole French programme is ended with an examination covering the contents | 1 | examination |
| | nd oral part and is organized according to Examination Instructions, a document available on the web. | | |
| 4FPZK | French for Intermediate Students Examination | ZK | 5 |
| | gram is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral pa | 1 | _ |
| - | ins, a document available on the web. Assessment of the presentation is included into the examination grading. | J | J |
| 4FZZK | French for Beginners Examination | ZK | 3 |
| | mination as given by the study plan. The course is terminated with an examination consisting of oral and written part. The exa | 1 | - |
| | ation. Its content covers the levels FZ1 - FZ5. | | , |
| | | 71/ | 4 |
| ANIMZK | Lightman for Informaciata Students Evamination | 1 /K 1 | |
| | German for Intermediate Students Examination the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat | ZK | • |
| he course content is | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat | tion consisting of tw | o parts - writte |
| | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat he courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 associated by the courses 04NM1 - 04NM3. | tion consisting of tw | o parts - writte |
| The course content is and oral, which cover to to be obtained from | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat he courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asset the teacher. | tion consisting of tw essment. More deta | vo parts - writte ailed informatio |
| The course content is and oral, which cover to be obtained from 04NPZK | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinat he courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asset the teacher. German for Advanced Students Examination | tion consisting of tweessment. More deta | o parts - writte |
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| The course content is and oral, which cover to be obtained from DANPZK The course content is and oral, which cover to oral marked the course content is RM3. Students are elementary and oral marked the course content is RP3. Students are elementary and part of the course content is RP3. Students are elementary and part of the course content is RP3. Students are elementary and part of the course content is RP3. Students are elementary and part of the course content is a bit of the course conte | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinatine courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asset the teacher. German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 untained from the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruct Russian for Beginners Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruct Spanish for Intermediate Students Examination the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for the assessment for course 04SM3.Oral examination follows the written part. Spanish for Advanced Students Examination the examination as given by the study plan. Examination the examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan of the students. | ZK on consisting of tweessment. More detail ZK on consisting of tweessment assessment a | to parts - writter ailed information 5 to parts - writter th. More detailed 4 cquired in RM ter. 5 cquired in RP1 r. 3 cquired in RZ1 r. 4 tents will have |
| The course content is and oral, which cover to be obtained from DANPZK The course content is and oral, which cover to formation is to be obtained from DARMZK The course content is RM3. Students are elected by ARPZK The course content is RP3. Students are elected by ARPZK The course content is RZ5. Students are elected by ARPZK The course content is RZ5. Students are elected by ASMZK The course content is obtained non-graded at a course content is aving passed the write by ASZZK | the examination as given by the study plan. The whole German for Intermediate Students Course is completed by an examinatine courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 asset the teacher. German for Advanced Students Examination the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 unstained from the teacher. Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RM3 and a successful written examination. Students are given instruct Russian for Intermediate Students Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruct Russian for Beginners Examination the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instruct Spanish for Intermediate Students Examination the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for the assessment for course 04SM3.Oral examination follows the written part. Spanish for Advanced Students Examination the examination as given by the study plan. Examination 04SPZK consists of two parts, namely oral and written. The prerequired | ZK on consisting of tweessment. More detail ZK on consisting of tweessment assessment a | po parts - writte ailed information 5 parts - writte ailed information 5 parts - writte at. More detailed 4 cquired in RM er. 5 cquired in RP-r. 3 cquired in RZ-r. 4 ents will have 5 to oral part is 3 |

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

The role of the block: V

Code of the group: BSVOLPREDM

Name of the group: BS - volitelné p edm ty

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

Credits in the group: 0

Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|-------|---|------------|---------|-------|----------|------|
| 12AUX | Administration of UNIX System Milan Ši or Milan Ši or Milan Ši or (Gar.) | KZ | 2 | 2+0 | L | V |
| 01ALG | Algebra Pavel Š oví ek | ZK | 4 | 4+0 | Z | V |

| 01ALGE | Algebra Zuzana Masáková Zuzana Masáková Zuzana Masáková (Gar.) | Z,ZK | 6 | 4+1 | | V |
|---------|---|------|---|-------|---|---|
| 11ANEL | Linear Circuit Analysis Pavel Jiroušek Pavel Jiroušek (Gar.) | Z,ZK | 4 | 4 | Z | V |
| 15CHEM | Analytical Calculations and Chemometry Principals Ji Zima Ji Zima Ji Zima (Gar.) | ZK | 2 | 2+0 | Z | V |
| 04ABZK | English - State Examination Jana Ková ová | ZK | 5 | 2 | L | V |
| 04AM1 | English for Intermediate Students M1 Jana Ková ová | Z | 1 | 0+2 | Z | V |
| 04AM2 | English for Intermediate Students M2 Jana Ková ová | Z | 1 | 0+2 | L | V |
| 04AM3 | English for Intermediate Students M3 Jana Ková ová Hana ápová (Gar.) | Z | 1 | 0+2 | Z | V |
| 04AP1 | English for Advanced Students P1 | Z | 1 | 0+2 | Z | V |
| 04AP2 | English for Advanced Students P2 | Z | 1 | 0+2 | L | V |
| 04AP3 | English for Advanced Students P3 | Z | 1 | 0+2 | Z | V |
| 16APLB | Application of Ionizing Radiation in Analytical Methods | ZK | 5 | 4+0 | L | V |
| 12APL | Application of Lasers Helena Jelínková, Alexandr Jan árek Helena Jelínková Helena Jelínková (Gar.) | Z,ZK | 2 | 2+0 | Z | V |
| 11APLG | Applications of Group Theory in Solid State Physics Zden k Pot ek Zden k Pot ek (Gar.) | ZK | 2 | 2 | Z | V |
| 02AMS | Atomic and Molecular Spectroscopy Svatopluk Civiš Svatopluk Civiš (Gar.) | Z,ZK | 4 | 2+2 | Z | V |
| 04CESM1 | Czech for foreigners - Intermediate Jana Ková ová | Z | 1 | 0+2 | Z | V |
| 04CESM2 | Intermediate Czech 2 Jana Ková ová | Z | 1 | 0+2 | L | V |
| 04CESM3 | Intermediate Czech 3 Jana Ková ová Jana Ková ová (Gar.) | Z | 1 | 0+2 | Z | V |
| 04CESP1 | Czech for Foreign Students - Advanced Examination Jana Ková ová | Z | 1 | 0+2 | Z | V |
| 04CESP2 | Czech for Foreigners - Advanced Jana Ková ová | Z | 1 | 0+2 | L | V |
| 04CESP3 | Czech for Foreigners - Advanced Jana Ková ová | Z | 1 | 0+2 | Z | V |
| 15DALCH | History of Alchemy and Chemistry Vladimír Karpenko Vladimír Karpenko (Gar.) | ZK | 2 | 2+0 | Z | V |
| 02DEF1 | History of Physics 1 Igor Jex, Miroslav Myška Miroslav Myška Igor Jex (Gar.) | Z | 2 | 2+0 | Z | V |
| 02DEF2 | History of Physics 2 Igor Jex Miroslav Myška Igor Jex (Gar.) | Z | 2 | 2+0 | L | V |
| 01DEM | History of Mathematics Lubomíra Dvo áková Lubomíra Dvo áková (Gar.) | Z | 1 | 0+2 | L | V |
| 02DRG | Differential Equations, Symmetries and Groups Libor Šnobl Martin Štefa ák Libor Šnobl (Gar.) | Z | 4 | 2+2 | Z | V |
| 01DIM1 | Discrete Mathematics 1 Lubomíra Dvo áková, Edita Pelantová, Zuzana Masáková Lubomíra Dvo áková Zuzana Masáková (Gar.) | Z | 2 | 2P+0C | Z | ٧ |
| 01DIM2 | Discrete Mathematics 2 Edita Pelantová, Zuzana Masáková Zuzana Masáková (Gar.) | Z | 2 | 2P+0C | L | V |
| 01DIM3 | Discrete Mathematics 3 Lubomíra Dvo áková | Z | 2 | 2+0 | Z | V |
| 00EKOT | Economy in Technology Jana Ková ová | Z | 1 | 2+0 | | V |
| 11ELEA | Instrumentation and Measurement Pavel Jiroušek Pavel Jiroušek Pavel Jiroušek (Gar.) | Z,ZK | 2 | 2 | L | V |
| 14ELMI | Electron Microscopy | Z,ZK | 3 | 2+0 | | V |
| 12EGS1 | English Graduate Standard 1 Ivan Procházka | KZ | 4 | 0+4 | L | V |
| 18ESPG1 | European Computer Driving Licence 1 | Z | 2 | 0+2 | Z | V |
| 18ESPG2 | European Computer Driving Licence 2 | Z | 2 | 0+2 | L | V |
| 16EPAM | Exact Methods in Research of Historic Monuments Ladislav Musílek Ladislav Musílek (Gar.) | ZK | 2 | 2+0 | Z | V |
| 02EXF1 | Experimental Physics 1 Jan epila | Z | 2 | 2+0 | L | V |
| 02EXF2 | Experimental Physics 2 | ZK | 2 | 2+0 | Z | V |
| 17ENF | Experimental Neutron Physics Jan Rataj | KZ | 2 | 2+1 | L | ٧ |
| 04FM1 | French for Intermediate Students M1 | Z | 1 | 0+2 | Z | V |

| 04FM2 | French for Intermediate Students M2 | Z | 1 | 0+2 | L | V |
|--------|--|----------|---|-------|------|---|
| 04FM3 | V ra Slechtová French for Intermediate Students M3 | Z | 1 | 0+2 | Z | V |
| 04FP1 | V ra Slechtová (Gar.) French for Advanced Students P1 | | 1 | 0+2 | Z | V |
| 04FP2 | Michal Beneš French for Advanced Students P2 | | 1 | 0+2 | L | V |
| 04FP3 | V ra Ślechtová French for Advanded Students P3 | | 1 | 0+2 | | V |
| | V ra Šlechtová (Gar.) French for Beginners Z1 | | | | | • |
| 04FZ1 | V ra Šlechtová French for Beginners Z2 | Z | 1 | 0+4 | | V |
| 04FZ2 | Michal Beneš | Z | 1 | 0+4 | Z | V |
| 04FZ3 | French for Beginners Z3 V ra Šlechtová | Z | 1 | 0+4 | L | V |
| 04FZ4 | French for Beginners Z4 V ra Šlechtová (Gar.) | Z | 1 | 0+4 | Z | V |
| 04FZ5 | French for Beginners Z5 V ra Šlechtová V ra Šlechtová (Gar.) | Z | 1 | 0+4 | L | V |
| 01FKP | Functions of Complex Variable Severin Pošta, Pavel Š oví ek Pavel Š oví ek (Gar.) | ZK | 2 | 2+0 | Z | V |
| 01FKPB | Functions of Complex Variable B Pavel Š oví ek | Z | 2 | 2+0 | Z | V |
| 01FAN1 | Functional Analysis 1 Pavel Š oví ek Pavel Š oví ek (Gar.) | Z,ZK | 4 | 2+2 | | V |
| 01FA1 | Functional Analysis 1 Pavel Š oví ek | Z,ZK | 3 | 2+1 | Z | V |
| 01FA2 | Functional Analysis 2 Pavel Š oví ek Pavel Š oví ek (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 02PRA1 | Experimental Laboratory 1 Libor Škoda, Katarína K ľžková Gajdošová, Barbara Antonina Trzeciak, Jaroslav Biel ík Jaroslav Biel | KZ | 6 | 0+4 | Z | V |
| 02PRA2 | Experimental Laboratory 2 Libor Škoda, Jaroslav Biel ík Jaroslav Biel ík (Gar.) | KZ | 6 | 0+4 | L | V |
| 02FYS1 | Physical Seminar 1 Martin Štefa ák Vojt ch Svoboda (Gar.) | Z | 2 | 0+2 | Z | V |
| 02FYS2 | Physical Seminar 2 Jan epila | Z | 2 | 0+2 | L | V |
| 01GTDR | Geometric Theory of Ordinary Differential Equations | Z | 2 | 0+2 | Z | V |
| 12INS1 | Michal Beneš Michal Beneš Michal Beneš (Gar.) Information Systems 1 | Z,ZK | 2 | 2 | Z | V |
| 12INS2 | Information Systems 2 Antonín Novotný | Z,ZK | 2 | 2 | L | V |
| 16ZJTB | Nuclear Energy Facilities and Accelerators Kamil Augsten, Tomáš echák Kamil Augsten Tomáš echák (Gar.) | ZK | 2 | 2+0 | Z | V |
| 17JARE | Nuclear Reactors Tomáš Bílý Tomáš Bílý (Gar.) | ZK | 2 | 2 | L | V |
| 01JEPR | Simple Compilers Zden k ulík Zden k ulík Zden k ulík (Gar.) | Z | 2 | 2 | L | V |
| 16KPR | Clinical Propaedeutic | ZK | 2 | 2+0 | Z | V |
| 04AKS | Jana Votrubová Jana Votrubová (Gar.) English Conversation | Z | 1 | 0+2 | L | V |
| 02KF | Jana Ková ová Jana Ková ová (Gar.) Quantum Physics | Z,ZK | 3 | 2P+1C | | V |
| 02LCF1 | Filip Petrásek Martin Štefa ák Libor Šnobl (Gar.) Experimental Laboratory 1 | Z | 2 | 0+2 | | V |
| 02LCF1 | Jaroslav Biel ík Jaroslav Biel ík (Gar.) Experimental Laboratory 2 | Z | 2 | 0+2 | L | • |
| | Jaroslav Biel ik Jaroslav Biel ik (Gar.) Laser Technique 1 | | | | | V |
| 12LT1 | Václav Kube ek Václav Kube ek Václav Kube ek (Gar.) Laser Technique 2 | Z,ZK | 3 | 2+1 | . Z | V |
| 12LT2 | Helena Jelínková | Z,ZK | 2 | 2+0 | L | V |
| 12LAS | Laser Systems Václav Kube ek Václav Kube ek Václav Kube ek (Gar.) | Z,ZK | 3 | 2+1 | L | V |
| 01LIP | Linear Programming Jan Volec estmír Burdík Jan Volec (Gar.) | Z,ZK | 3 | 2+1 | Z | V |
| 18MAK1 | Macroeconomics 1 Quang Van Tran Quang Van Tran (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 18MAK2 | Macroeconomics 2 Quang Van Tran Quang Van Tran (Gar.) | Z,ZK | 4 | 2+2 | Z | ٧ |
| 01MAPR | Markov processes Jan Vybíral Jan Vybíral (Gar.) | Z,ZK | 4 | 2+2 | | ٧ |
| 18EKO1 | Mathematical Economics 1 | Z,ZK | 5 | 2+2 | Z | V |

| 18EKO2 | Mathematical Economics 2 | Z,ZK | 5 | 2+2 | L | V |
|---------|--|---------|---|-------|-------|---|
| 01MASC | Mathematical Statistics - Seminar Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.) | Z | 2 | 0+2 | | V |
| 00MAM1 | Essentials of High School Course 1 David Be Martin Stefa ák | Z | 1 | 0+1 | | V |
| 00MAM2 | Essentials of High School Math Course 2 Lukáš Heriban Severin Pošta Lukáš Heriban (Gar.) | Z | 1 | 0+1 | | V |
| 01MMPV | Mathematical Models of Groundwater Flow Ji í Mikyška Ji í Mikyška (Gar.) | KZ | 2 | 2+0 | L | V |
| 01MMF | Methods of Mathematical Physics Pavel Š oví ek | Z,ZK | 6 | 4+2 | L | V |
| 18MIK1 | Microeconomics 1 Quang Van Tran Quang Van Tran (Gar.) | Z,ZK | 5 | 2P+2C | Z | V |
| 18MIK2 | Microeconomics 2 | Z,ZK | 5 | 2P+2C | L | V |
| 11MIK | Quang Van Tran Quang Van Tran (Gar.) Logical Circuits and Microprocessors | Z,ZK | 4 | 4 | L | V |
| 12MPR1 | Pavel Jiroušek, Petr Levinský Pavel Jiroušek Pavel Jiroušek (Gar.) Microprocessors 1 | ZK | 4 | 4+0 | Z | V |
| 12MPR2 | Miroslav ech Miroslav ech Miroslav ech (Gar.) Microprocessors 2 | ZK | 2 | 2+0 | L | V |
| 12MOF | Miroslav ech Miroslav ech Miroslav ech (Gar.) Molecular Physics | ZK | 2 | 2+0 | L | V |
| | Jan Proška, Martin Michl Martin Michl Jan Proška (Gar.) Nanotechnology | | _ | | _ | |
| 12NT | Jan Proška, Eduard Hulicius Jan Proška Eduard Hulicius (Gar.) Simulations and Data Analysis Tools | ZK _ | 2 | 2+0 | Z | V |
| 02NSAD | Jan epila | Z | 2 | 2+0 | _ | V |
| 04NM1 | German for Intermediate Students M1 German for Intermediate Students M2 | Z | 1 | 0+2 | Z | V |
| 04NM2 | Miloslava echová Miloslava echová (Gar.) | Z | 1 | 0+2 | L | V |
| 04NM3 | German for Intermediate Students M2 Miloslava echová Miloslava echová (Gar.) | Z | 1 | 0+2 | Z | V |
| 04NP1 | German for Advanced Students P1 | Z | 1 | 0+2 | Z | V |
| 04NP2 | German for Advanced Students P2 Miloslava echová | Z | 1 | 0+2 | L | V |
| 04NP3 | German for Advanced Students P3 Miloslava echová Miloslava echová (Gar.) | Z | 1 | 0+2 | Z | V |
| 01NME2 | Numerical Methods 2 Michal Beneš Michal Beneš (Gar.) | KZ | 2 | 2+0 | L | V |
| 15CH1 | General Chemistry 1 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z | 3 | 2+1 | Z | V |
| 15CH2 | General Chemistry 2 Ond ej Holas, Petr Distler, Václav uba Petr Distler Petr Distler (Gar.) | Z,ZK | 3 | 2+1 | L | V |
| 02OR | General Relativity Old ich Semerák Boris Tomášik Boris Tomášik (Gar.) | ZK | 3 | 3+0 | L | V |
| 01POPJ1 | Computers and Natural Language 1 | Z | 2 | 0+2 | Z | V |
| 01POPJ2 | Computers and Natural Language 2 | Z | 2 | 0+2 | L | V |
| 12POAL | Computer Algebra Richard Liska Richard Liska (Gar.) | KZ | 2 | 2 | Z | V |
| 01POGR1 | Computer Graphics 1 Pavel Strachota Pavel Strachota (Gar.) | Z | 2 | 2 | Z | V |
| 01POGR2 | Computer Graphics 2 Pavel Strachota Pavel Strachota (Gar.) | Z | 2 | 2 | L | V |
| 01SITE1 | Computer Networks 1 Miroslav Minárik Miroslav Minárik (Gar.) | Z | 2 | 1+1 | Z | V |
| 01SITE2 | Computer Networks 2 Miroslav Minárik Miroslav Minárik (Gar.) | Z | 2 | 1+1 | L | V |
| 01POPR | Advanced Probability Tomáš Hobza | Z | 2 | 2+0 | | V |
| 12PEL1 | Practical Electronics 1 | Z,ZK | 2 | 2+0 | L | V |
| 12PEL2 | Practical Electronics 2 | Z,ZK | 2 | 2+0 | Z | V |
| 12PIN1 | Practical Informatics for Technics 1 Richard Liska, Milan Kucha ík Milan Kucha ík (Gar.) | Z | 2 | 1+1 | L | V |
| 12PIN2 | Practical Informatics for Technics 2 Milan Ši or Milan Ši or (Gar.) | Z | 2 | 1+1 | Z | V |
| 12PIN3 | Practical Informatics for Technics 3 Milan Ši or Milan Ši or Milan Ši or (Gar.) | Z | 2 | 1+1 | L | V |
| 15INPR | Laboratory Practice in Instrumental Methods | KZ | 4 | 0+4 | L | V |
| 01PRA1 | Probability and Mathematical Statistics 1 | Z,ZK | 6 | 4+2 | Z | V |
| 01PRA2 | Probability and Mathematical Statistics 2 Václav K s | ZK | 2 | 2+0 | L | V |

| 01PRST | Probability and Statistics Tomáš Hobza Tomáš Hobza (Gar.) | Z,ZK | 4 | 3+1 | Z | V |
|---------|--|------|---|-------|---|---|
| 01PRSTB | Probability and Statistics B Tomáš Hobza Tomáš Hobza Tomáš Hobza (Gar.) | KZ | 4 | 3+1 | Z | V |
| 16UAZB | Principles of Ionizing-Radiation Applications Ladislav Musilek Kamil Augsten Ladislav Musilek (Gar.) | ZK | 2 | 2+0 | Z | V |
| 16FNZB | Problems of Non-ionizing Radiation | ZK | 2 | 2+0 | Z | V |
| 12PSEM | Problem Seminary | Z | 2 | 0+4 | L | V |
| 01PROP | Programmer's Practicum Jakub Klinkovský Jakub Klinkovský (Gar.) | Z | 2 | 0+2 | Z | V |
| 01PERI | Programming of Peripherals Devices Zden k ulik Zden k ulik (Gar.) | Z | 2 | 2+0 | Z | V |
| 01PW | Windows Programming Zden k ulík Zden k ulík (Gar.) | Z | 2 | 2+0 | Z | V |
| 18PRC1 | Programming in C++ 1 Vladimír Jarý, Miroslav Virius Miroslav Virius (Gar.) | Z | 4 | 2+2 | Z | V |
| 18PRC2 | Programming in C++ 2 Vladimír Jarý, Miroslav Virius, Jakub Klinkovský Miroslav Virius Miroslav Virius (Gar.) | KZ | 4 | 2+2 | L | V |
| 18PJ | Programming in Java Miroslav Virius Miroslav Virius (Gar.) | Z,ZK | 5 | 2P+2C | Z | V |
| 18MTL | Programming in MATLAB | Z,ZK | 5 | 2+2 | Z | V |
| 18MPT | Programming in MATLAB | KZ | 5 | 0+4 | Z | V |
| 18PAS | Pascal Programming Miroslav Virius | Z | 4 | 2+2 | L | V |
| 12PDR1 | Data Communication and Interfaces 1 | Z | 2 | 2+0 | Z | V |
| 12PDR2 | Data Communication and Interfaces 2 Josef Blažej | Z | 2 | 2+0 | L | V |
| 01PSL | LaTeX - Publication Instrument Petr Ambrož Petr Ambrož Petr Ambrož (Gar.) | Z | 2 | 0+2 | L | V |
| 00RET | Rhetoric Jana Ková ová Jana Ková ová | Z | 1 | 0+2 | | V |
| 01RMF | The Equations of Mathematical Physics Václav Klika Václav Klika Václav Klika (Gar.) | Z,ZK | 6 | 4+2 | Z | V |
| 02RQGP1 | Seminar on Quark-Gluon Plasma 1 Jaroslav Biel ik | Z | 1 | 2+0 | | V |
| 02RQGP2 | Seminar on Quark-Gluon Plasma 2 Jaroslav Biel ik | Z | 1 | 2+0 | | V |
| 04RM1 | Russian for Intermediate Students M1 Michal Beneš | Z | 1 | 0+2 | Z | V |
| 04RM2 | Russian for Intermediate Students M2 Miloslava echová | Z | 1 | 0+2 | L | V |
| 04RM3 | Russian for Intermediate Students M3 Zhanna Isaeva (Gar.) | Z | 1 | 0+2 | Z | V |
| 04RP1 | Russian for Advanced Students P1 Michal Beneš | Z | 1 | 0+2 | Z | V |
| 04RP2 | Russian for Advanced Students P2 Miloslava echová | Z | 1 | 0+2 | L | V |
| 04RP3 | Russian for Advanced Students P3 Zhanna Isaeva (Gar.) | Z | 1 | 0+2 | Z | V |
| 04RZ1 | Russian for Beginners Z1 Miloslava echová | Z | 1 | 0+4 | L | V |
| 04RZ2 | Russian for Beginners Z2 Michal Beneš | Z | 1 | 0+4 | Z | V |
| 04RZ3 | Russian for Beginners Z3 Miloslava echová | Z | 1 | 0+4 | L | V |
| 04RZ4 | Russian for Beginners Z4 Zhanna Isaeva (Gar.) | Z | 1 | 0+4 | Z | V |
| 04RZ5 | Russian for Beginners Z5 Zhanna Isaeva Zhanna Isaeva (Gar.) | Z | 1 | 0+4 | L | V |
| 01RSWP | Project Management of Software Projects | KZ | 2 | 0+2 | Z | V |
| 02SMF | Seminar of Mathematical Physics Martin Štefa ák Ladislav Hlavatý (Gar.) | Z | 2 | 0+2 | Z | V |
| 01SSM1 | Seminar of Contemporary Mathematics 1 Mat j Tušek Edita Pelantová (Gar.) | Z | 2 | 0+2 | Z | V |
| 01SSM2 | Seminar of Contemporary Mathematics 2 Václav Klika | Z | 2 | 0+2 | L | V |
| 16SED1 | Dosimetry Seminar 1 Kate ina Pila ová Kate ina Pila ová (Gar.) | Z | 2 | 0+2 | | V |
| 16SED2 | Dosimetry Seminar 2 Kate ina Pila ová | Z | 2 | 0+2 | | V |
| 01SMB1 | Seminar on Calculus B1 Milan Krbálek | Z | 2 | 0+2 | Z | V |

| 01SMB2 | Seminar on Calculus B2 Milan Krbálek | Z | 2 | 0+2 | L | V |
|---------|---|------|---|-------|---|---|
| 01SOS1 | Software Seminar 1 Zden k ulik Zden k ulik (Gar.) | Z | 2 | 0+2 | Z | V |
| 01SOS2 | Software Seminar 2 Zden k ulik Zden k ulik Zden k ulik (Gar.) | Z | 2 | 0+2 | L | V |
| 02SPRA1 | Special Practicum 1 Jan epila, Lukáš Novotný Jan epila Jan epila (Gar.) | KZ | 6 | 0+4 | Z | V |
| 02SPRA2 | Special Practicum 2 Jan epila Jan epila (Gar.) | KZ | 6 | 0+4 | L | V |
| 01STR | Statistical Decision Theory Václav K s Václav K s Václav K s (Gar.) | ZK | 2 | 2+0 | L | V |
| 11SFBM | Structure and Function of Biomolecules Petr Kolenko, Tomáš Kova Petr Kolenko Petr Kolenko (Gar.) | Z,ZK | 3 | 2+1 | Z | V |
| 04SM1 | Spanish for Intermediate Students M1 | Z | 1 | 0+2 | Z | V |
| 04SM2 | Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+2 | L | V |
| 04SM3 | Spanish for Intermediate Students M3 Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+2 | Z | V |
| 04SP1 | Spanish for Advanced Students P1 | Z | 1 | 0+2 | Z | V |
| 04SP2 | Spanish for Advanced Students P2 | Z | 1 | 0+2 | L | V |
| 04SP3 | Spanish for Advanced Students P3 Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+2 | Z | V |
| 04SZ1 | Spanish for Beginners Z1 | Z | 1 | 0+4 | L | V |
| 04SZ2 | Spanish for Beginners Students Z2 | Z | 1 | 0+4 | Z | V |
| 04SZ3 | Spanish for Beginners Z3 Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+4 | L | V |
| 04SZ4 | Spanish for Beginners Z3 Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+4 | Z | V |
| 04SZ5 | Spanish for Beginners Z5 Beatriz Vadillo Gonzalo Beatriz Vadillo Gonzalo (Gar.) | Z | 1 | 0+4 | L | V |
| 14TM | Engineering Mechanics Ji í Kunz, Aleš Materna Ji í Kunz Ji í Kunz (Gar.) | Z,ZK | 4 | 2+2 | 3 | V |
| 14TEM | Engineering Mechanics Ji í Kunz Ji í Kunz (Gar.) | Z,ZK | 6 | 4 | 5 | V |
| 12TAIS | Ion Beam Techniques and Applications. | ZK | 3 | 3+0 | L | V |
| TV-1 | Physical Education | Z | 1 | | Z | V |
| TV-2 | Physical Education | Z | 1 | | L | V |
| TV-3 | Physical education | Z | 1 | 0+2 | Z | V |
| TV-4 | Physical education | Z | 1 | 0+2 | L | V |
| 02TEF1 | Theoretical Physics 1 Petr Novotný Petr Novotný Igor Jex (Gar.) | Z,ZK | 4 | 2+2 | Z | V |
| 02TEF2 | Theoretical Physics 2 Filip Petrásek, Petr Novotný Josef Schmidt Petr Novotný (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 01DYSY | Theory of Dynamic Systems Branislav Rehák Branislav Rehák (Gar.) | ZK | 3 | 3+0 | L | V |
| 01TKO | Theory of Codes Edita Pelantová, Jan Volec Edita Pelantová Jan Volec (Gar.) | ZK | 2 | 2P+0C | L | V |
| 02TER | Heat and Molecular Physics Filip Petrásek Petr Novotný Petr Jizba (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 02TSFA | Thermodynamics and Statistical Physics Igor Jex, Jaroslav Novotný Antonín Hoskovec Igor Jex (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 01TOP | Topology estmír Burdík estmír Burdík (Gar.) | ZK | 2 | 2+0 | Z | V |
| 16MCRB | Transport of Ionizing Radiation and Monte Carlo Method | Z,ZK | 4 | 2+2 | L | V |
| 18INTA | Development of internet applications Jakub Klinkovský, Dana Majerová Dana Majerová (Gar.) | KZ | 4 | 2P+2C | L | V |
| 01DYK | Introduction to Continuum Dynamics Pavel Strachota | Z | 2 | 0+2 | | V |
| 16ZIVB | Introduction to Ecology Hana Pr šová Hana Pr šová (Gar.) | KZ | 2 | 2+0 | Z | V |
| 02UFEC | Introduction to Elementary Particle Physics Jaroslav Biel ík, Marek Matas Jaroslav Biel ík Jaroslav Biel ík (Gar.) | Z | 2 | 2+0 | Z | V |
| 11UFPLN | Introduction to Solid State Physics Petr Kolenko, Ivo Kraus Petr Kolenko Ivo Kraus (Gar.) | ZK | 2 | 2+0 | L | V |
| 17UINZ | Introduction to Engineering | Z,ZK | 3 | 2+1 | Z | V |
| 02UKP | Introduction to Curves and Surfaces Jan epila | Z | 2 | 1+1 | L | V |
| 12ULT | Introduction to Laser Technique | Z,ZK | 3 | 2+1 | Z | V |

| 12UMF | Introduction to Modern Physics Jan Pšikal Jan Pšikal Jan Pšikal (Gar.) | Z | 3 | 2+1 | L | V |
|---------|---|------|---|--------|---|---|
| 18UOA | Introduction into Object Oriented Architecture Rudolf Pecinovský Rudolf Pecinovský | Z,ZK | 4 | 2P+2C | Z | V |
| 00UPRA | Introduction to Law Martin ech Jana Ková ová | Z | 1 | 0+2 | | V |
| 00UPSY | Introduction to Psychology Jakub Haif ek Jana Ková ová | Z | 1 | 0+2 | | V |
| 01UTIZ | Introduction to Theoretical Informatics Petr Ambrož | ZK | 2 | 2+0 | | V |
| 11UVOD | Introduction to Specialization Ivo Kraus | Z | 2 | 0+2 | Z | V |
| 12VAK | Vacuum Physics and Technology Richard Švejkar Richard Švejkar (Gar.) | KZ | 4 | 2+2 | Z | V |
| 12PYTH | Scientific Programming in Python Pavel Váchal, Jakub Urban Pavel Váchal Pavel Váchal (Gar.) | Z | 2 | 0+2 | L | V |
| 12VTV | Scientific and Technical Computing Ivan Procházka Ivan Procházka Ivan Procházka (Gar.) | Z | 2 | 1+1 | L | V |
| 12VFT | High Frequency and Impulse Circuitry | Z,ZK | 2 | 2+0 | | V |
| 17VYR | Jaroslav Pavel Jaroslav Pavel (Gar.) Research Reactors | ZK | 2 | 2 | L | V |
| 12EPR1 | Basic Electronics Practicum 1 Ivan Procházka, Jaroslav Pavel Ivan Procházka Ivan Procházka (Gar.) | KZ | 3 | 0+2 | Z | V |
| 12EPR2 | Basic Electronics Practicum 2 Ivan Procházka, Jaroslav Pavel Ivan Procházka Ivan Procházka (Gar.) | KZ | 3 | 0+2 | L | V |
| 12ZPLT | Basic Laser Technique Laboratory Václav Kube ek, Josef Blažej Václav Kube ek (Gar.) | KZ | 6 | 0+4 | L | V |
| 12ZPOP | Basic Optical Laboratory | KZ | 6 | 0+4 | L | V |
| 18ZALG | Alexandr Jan árek Alexandr Jan árek Alexandr Jan árek (Gar.) Basics of Algorithmization Vladimír Jarý, Miroslav Virius, Petr Pauš, František Vold ich, Zuzana Pet í ková, František Gašpar Vladimír Jarý Miroslav Virius (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 16AMMB | Fundamentals of Analytical Measurement Methods Hana Pr šová Hana Pr šová (Gar.) | ZK | 2 | 2+0 | L | V |
| 16ZBAF1 | Fundamentals of Human Biology, Anatomy and Physiology 1 Alena Doubková, Šimon Vaculín, Zde ka Polívková, Josef Stingl Alena | Z,ZK | 4 | 2+2 | Z | V |
| 16ZBAF2 | Doubková Alena Doubková (Gar.) Fundamentals of Human Biology, Anatomy and Physiology 2 Alena Doubková, Šimon Vaculín, Josef Stingl Alena Doubková Alena Doubková (Gar.) | Z,ZK | 4 | 2+2 | L | V |
| 16ZDOZ2 | Fundamentals of Radiation Dosimetry 2 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.) | ZK | 2 | 2+0 | L | V |
| 16ZDOZ1 | Fundamentals of Radiation Dosimetry 1 Tomáš Trojek Tomáš Trojek Tomáš Trojek (Gar.) | Z,ZK | 4 | 2+2 | | V |
| 17ZEH | Basics of Economic Assessment | ZK | 2 | 2+0 | Z | V |
| 17ZEL | Basics of Electronics Martin Kropík Martin Kropík (Gar.) | KZ | 3 | 2+2 | Z | 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 |
| 02ZFM1 | Foundations of Physical Measurements 1 Jan epila | Z | 2 | 2+0 | Z | V |
| 02ZFM2 | Foundations of Physical Measurements 2 | Z | 2 | 0+2 | L | V |
| 11ZFPL | Basic to Solid State Physics Ladislav Kalvoda, Eva Mihóková Eva Mihóková Ladislav Kalvoda (Gar.) | KZ | 2 | 26P+0C | Z | V |
| 12ZFP | Principles of Plasma Physics Martin Jirka, Ji í Limpouch Martin Jirka Ji í Limpouch (Gar.) | Z,ZK | 4 | 3+1 | L | V |
| 02ZJF | Nuclear Physics Vladimír Wagner Martin Štefa ák Vladimír Wagner (Gar.) | Z,ZK | 6 | 3+2 | Z | V |
| 02ZJFB | Nuclear Physics B | KZ | 3 | 3+0 | Z | V |
| 15ZKJE | Vladimír Wagner Martin Štefa ák Vladimír Wagner (Gar.) Nuclear Power Plants Design and Operation Tomáš Bílý, Lenka Frýbortová, ubomír Sklenka Lenka Frýbortová Tomáš Bílý (Gar.) | ZK | 3 | 2+0 | L | V |
| 16MEZB | Fundamentals of Ionizing-Radiation Metrology Tomáš echák | Z,ZK | 4 | 2+1 | Z | V |
| 01ZOS | Introduction to Operating Systems | Z | 2 | 2+0 | L | V |
| 12ZAOP | Zden k ulík Zden k ulík Žden k ulík (Gar.) Fundamentals of Optics | Z,ZK | 2 | 2+0 | Z | V |
| 01ZPB1 | Ivan Richter, Pavel Kwiecien Ivan Richter Ivan Richter (Gar.) Introduction to Computer Security 1 Petr Voká Petr Voká Petr Voká (Gar.) | | 2 | 1+1 | | V |

| 16ZPSP | | | | | Î | |
|--|---|--|---|--|--|--|
| | Basic Work with PC Kamil Augsten Kamil Augsten (Gar.) | Z | 2 | 0+2 | 1 | V |
| 18ZPRO | Basics of Programming Maksym Dreval, Vladimír Jarý, Miroslav Virius, Jakub Klinkovský, Petr Pauš, František Vold ich, Jan Tomsa, Zuzana Pet í ková Miroslav Virius Miroslav Virius (Gar.) | Z | 4 | 4C | Z | V |
| 16ZRAO | Basics of Radiation Protection Aneta Dušková Aneta Dušková (Gar.) | Z | 2 | 2+0 | | V |
| 02ZSM | Introduction to the Standard Model Zden k Hubá ek Zden k Hubá ek (Gar.) | ZK | 2 | 2+0 | | V |
| 16ZEDB | Basics of Experimantal Data Processing Kate ina Pila ová Kate ina Pila ová (Gar.) | ZK | 2 | 2+0 | Z | V |
| 14ZZKS | Testing and Processing of Metals and Alloys | KZ | 4 | 4 | 6 | V |
| 12ZDP | Data Processing for Publishing Antonín Novotný Antonín Novotný (Gar.) | Z | 2 | 2 | Z | V |
| 12ZMD | Measurement and Data Processing Ivan Procházka | KZ | 2 | 1+1 | Z | V |
| Characteristics of the | courses of this group of Study Plan: Code=BSVOLPREDM Na | me=BS - voli | itelné p e | edm ty | | |
| 02DEF1 His | story of Physics 1 | | | Ì | Z | 2 |
| Physics and its place in the | system of sciences. The relationship of man and nature. Natural sciences in ancient Or | ientand Greece, | Greek natur | al philosoph | ers, Aristotl | e. Physics in |
| · · · · · · · · · · · · · · · · · · · | Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano B | Bruno. Copernicu | s, Kepler, G | alileo, Huyg | ens. The bir | th of physics |
| as experimental science. Ne | wton and his work. | | | | | |
| 02EXF1 Ex | perimental Physics 1 | | | | Z | 2 |
| Lecture represents an introd | uctory course in experimental physics. Students will learn methods of measurement of | basic physical qu | uantities and | d methods o | f measurem | ent evaluation. |
| | neral Chemistry 1 | | | | 7 | 3 |
| | s, quantities and units used in chemistry are introduced in the course General Chemist | ry I. Their signific | ance and pr | ractical use | are illustrate | ed by examples |
| | eneral Chemistry 2 | | | 7 | .ZK | 3 |
| The subject is the continuation | on of the course General chemistry I. The main attention is paid to general principles g is is not restricted only to chemical processes is documented. The significance and pra | - | - | s. Using vario | ous example | es, the fact that |
| in exercises. | | | | | | |
| | at and Molecular Physics | | | | Z,ZK | 4 |
| | ials, heat transfer; stationary and non-stationary heat conduction, heat transfer and pe | | | | | |
| entropy; non-chemical syster | ms: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials | ; kinetic theory: M | axwell's vel | ocity distribu | tion,equipa | rtition theorem. |
| 18ZPRO Ba | sics of Programming | | | | Z | 4 |
| This course is intended mair | nly for students with little or no experience in programming. It familiarizes the students | with the basic cor | ncepts in pro | gramming a | and with the | Python |
| | | | | | | |
| programming language. | | | | | | |
| | perimental Physics 2 | | | | ZK | 2 |
| 02EXF2 Ex | perimental Physics 2 uctory course in experimental physics. Students will learn methods of measurement of | basic physical qu | uantities and | - 1 | I | |
| Lecture represents an introd | 1 7 | basic physical qu | uantities and | d methods o | I | |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex | uctory course in experimental physics. Students will learn methods of measurement of | | | d methods o | f measurem | nent evaluation. |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especial | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 | nch Physical Engi | neering, Nu | d methods o | f measurem | ent evaluation. 6 it can be also |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especial attended by students interest | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 ly for students who intend to study some of the physical specializations of FNSPE(brar ed in the otherspecializations. In Experimental laboratory students learn how to prepare f | nch Physical Engi or experiments (ir | neering, Nu | d methods o | f measurem KZ eering). But rature), the | ent evaluation. 6 it can be also implementation |
| 02EXF2 EX Lecture represents an introd 02PRA1 Ex Lecture is intended especial attended by students interest of the measurement (acquire | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 ly for students who intend to study some of the physical specializations of FNSPE(bran | nch Physical Engi or experiments (ir | neering, Nu | d methods o | f measurem KZ eering). But rature), the | ent evaluation. 6 it can be also implementation |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especial attended by students interest of the measurement (acquire practically extendthe knowle | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 ly for students who intend to study some of the physical specializations of FNSPE(brared in the otherspecializations. In Experimental laboratory students learn how to prepare feor of different experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. | nch Physical Engi or experiments (ir | neering, Nu | d methods o | f measurem KZ eering). But rature), the f results. At | ent evaluation. 6 it can be also implementation the same time |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especial attended by students interest of the measurement (acquire practically extendthe knowle 02PRA2 Ex | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 ly for students who intend to study some of the physical specializations of FNSPE(brared in the otherspecializations. In Experimental laboratory students learn how to prepare for of different experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. perimental Laboratory 2 | nch Physical Engi or experiments (ir easurement, proc | neering, Nu ncluding wor essing and | d methods o | f measurem KZ eering). But rature), the f results. At | ent evaluation. 6 it can be also implementation the same time 6 |
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| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especiall attended by students interest of the measurement (acquire practically extendthe knowle 02PRA2 Ex Lecture is intended especiall attended by students interest of the measurement (acquire practically extendthe knowle | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 by for students who intend to study some of the physical specializations of FNSPE(brar ed in the otherspecializations. In Experimental laboratory students learn how to prepare for a fifterent experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. perimental Laboratory 2 by for students who intend to study some of the physical specializations of FNSPE(brar ed in the otherspecializations. In Experimental laboratory students learn how to prepare for of different experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. | nch Physical Engi or experiments (ir easurement, proc nch Physical Engi or experiments (ir | neering, Nu ncluding wor essing and neering, Nu ncluding wor | clear Engine k with thelite evaluation o clear Engine k with thelite evaluation o | f measurem KZ eering). But rature), the f results. At KZ eering). But rature), the f results. At | it can be also implementation the same time 6 it can be also implementation the same time 6 it can be also implementation the same time |
| 02EXF2 Ex Lecture represents an introd 02PRA1 Ex Lecture is intended especial attended by students interest of the measurement (acquire practically extendthe knowle 02PRA2 Ex Lecture is intended especial attended by students interest of the measurement (acquire practically extendthe knowle 02TEF1 Th | uctory course in experimental physics. Students will learn methods of measurement of perimental Laboratory 1 by for students who intend to study some of the physical specializations of FNSPE(brar ed in the otherspecializations. In Experimental laboratory students learn how to prepare for of different experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. perimental Laboratory 2 by for students who intend to study some of the physical specializations of FNSPE(brar ed in the otherspecializations. In Experimental laboratory students learn how to prepare for of different experimental procedures and routines), willteach writing the records of medge gained in lectures on physics. eoretical Physics 1 | nch Physical Engi or experiments (ir easurement, proc nch Physical Engi or experiments (ir easurement, proc | neering, Nu neluding wor lessing and neering, Nu neluding wor lessing and | clear Engine clear Engine clear Engine k with thelite evaluation o | f measurem KZ eering). But rature), the f results. At KZ eering). But rature), the f results. At | tent evaluation. 6 it can be also implementation the same time 6 it can be also implementation the same time |
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| ORET | Rhetoric | Z | ! |
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| | sed on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to | • | |
| | nverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are | an integral part of t | he course. |
| 0UPRA | Introduction to Law | Z | 1 |
| 0UPSY | Introduction to Psychology | Z | 1 |
| 2AUX | Administration of UNIX System | KZ | 2 |
| | vanced administration of Unix operating system | 1 | ı |
| 1ALG | Algebra | ZK | 4 |
| | n into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolea | 1 | |
| ommutative fields. | | a.goz.ao,go o. | po.y |
| 1ALGE | Algebra | Z.ZK | 6 |
| _ | Algebia xioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem | 1 ' | 1 |
| • | | | • |
| | on of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integra pendent chapters are devoted to divisibility in integral domains and to finite fields. | i domains, principai | ideal domain |
| | | 7.71/ | |
| 1ANEL | Linear Circuit Analysis | Z,ZK | 4 |
| | ntroduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is espec | cially oriented to the | understandin |
| f the computer me | ethods of analysis. The second part gives a short list of most commonly used circuits in experimental equipment. | | 1 |
| 5CHEM | Analytical Calculations and Chemometry Principals | ZK | 2 |
| ecture deals with | basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors, | basic data distribut | tions, one- and |
| vo-tailed significar | nce testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing | , seminar part cons | sists of equation |
| - | pichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in | potentiometry, could | ometry, |
| pectrophotometry | and separation methods, solving of complex forming equilibria. | | |
| 4ABZK | English - State Examination | ZK | 5 |
| he course content | t is the examination as given by the study plan. Student is eligible for the State language examination (level C1 or B2 of CEFR) | only if he/she has p | bassed all the |
| espective courses | and examinations (04AP3KK, 04APAK, 04API, and 04APRK). From its first semester, part of the APIN programme covers also | examination subje | cts. As require |
| • | ions comply with respective rules and regulations for state language examinations. | • | • |
| 4AM1 | English for Intermediate Students M1 | Z | 1 |
| | gned for students who have successfully completed the full secondary school English language course at least at the A2 level o | . – | ı ' pean Framew |
| _ | anguages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into fundament | | - |
| | nd written communication situations. Thus it covers topics related to the student's life and needs as well as topics of subtechnic | | |
| | vledge of grammar issues used in EAP. | ai interest. Attention | i is also paid |
| 4AM2 | English for Intermediate Students M2 | Z | 1 |
| | | - | I |
| | expects the student to have completed the 04AM1 course. It develops their skills for work with subtechnical texts, focusing also a price of EAR (a.g., definition, existence and classification of the property of the propert | | |
| | | | |
| | pical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the course is also o | guided writing. If nec | essary, grami |
| evision is included | | | essary, gramm |
| evision is included 04AM3 | English for Intermediate Students M3 | Z | 1 |
| evision is included 04AM3 | | Z | 1 |
| evision is included 04AM3 The course develop | English for Intermediate Students M3 | Z echnical vocabulary | 1 and independ |
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| 04CESM2 | Intermediate Czech 2 | Z | 1 |
|---|--|--|---|
| | e topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, speaking, and rea | ading skills and tra | ains the student |
| in understanding comm | on abbreviations, abbreviated words, and mathematical terms and formulas. | | |
| 04CESM3 | Intermediate Czech 3 | Z | 1 |
| | morphological topics covered earlier and extends the student's knowledge of more difficult language phenomena. It is espec | | - |
| | oping the student's writing skills. | , | ., |
| 04CESP1 | | Z | 1 |
| | Czech for Foreign Students - Advanced Examination | _ | - |
| | ourse is very good knowledge of the Czech language, i.e., communicative competences at least at level B2 of the Common Et | • | |
| | vision of standard language structures, but mainly on practising more complex grammatical structures typical of the style of s | | _ |
| | e of engineering and professional communication, both in spoken and written form. The topics include University Studies and | Student Life. Wri | tten practice |
| includes communication | with teachers and faculty administrators. | | |
| 04CESP2 | Czech for Foreigners - Advanced | Ζ | 1 |
| This course extends the | student's knowledge acquired in CESP1 and focuses on difficult language phenomena. It practises working with technical a | nd specialist texts | s placing greater |
| emphasis on individual | | • | |
| 04CESP3 | | Z | 1 |
| | Czech for Foreigners - Advanced | | |
| · · | e student's knowledge from CESP2. It includes working with authentic specialist materials, their interpretation and presentation | on, and, finally, pre | esentation of the |
| student's project. Writin | g skills necessary for professional communication are trained. | | |
| 15DALCH | History of Alchemy and Chemistry | ZK | 2 |
| This course provides the | e overview of crafts with chemical and/or metallurgical basis. Development of alchemy from ancient times in China, India, and | d Hellenistic world | l is discussed. |
| | s dedicated to Alchemy in Arabic world and various aspects of alchemy in Latin Europe. The influence of alchemical approac | | |
| advancement is illustrat | | · | |
| | | 7 | 2 |
| 02DEF2 | History of Physics 2 | Z | 2 |
| | al mechanics after Newton, Bernoulli's, Euler, Lagrange. Historical development of optics, corpuscular and wave approach. El | | |
| electrostatics, galvanisn | n, electrodynamics and electromagnetism, Faraday and Maxwell. Thermodynamics and its laws, statistical physics, Boltzman | n. The birth of mo | dern quantum |
| and relativistic physics, | Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear ei | nergy, Elementary | y particles, |
| standard model. The co | ncept of Nature and Universe of today. | | |
| 01DEM | History of Mathematics | 7 | 1 |
| | n of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field | | • |
| | | - give their taiks t | on varoius topics |
| from the history of math | | | |
| 02DRG | Differential Equations, Symmetries and Groups | Z | 4 |
| The purpose of the lecti | ure is to teach students computation of symmetries of the differential equations. | | |
| 01DIM1 | Discrete Mathematics 1 | Z | 2 |
| | to elementary number theory and applications. It includes individual problem solving. | | _ |
| | | | |
| 01DIM2 | Discrete Mathematics 2 | Z | 2 |
| The seminar is devoted | to recurrence relations. It includes individual problem solving. | | |
| 01DIM3 | Discrete Mathematics 3 | Z | 2 |
| The subject is devoted t | o elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar | students present | a problem with |
| solution chosen from the | e given literature. | | |
| 11ELEA | Instrumentation and Measurement | Z,ZK | 2 |
| | | ۷,۷۱۲ | 2 |
| | uction to the instrumentation and measurement for physicists. | | |
| 14ELMI | Electron Microscopy | Z,ZK | 3 |
| In this course the stude | nts are introduced to the microscopic methods used for the characterization of materials, thin layers or nanoparticles. The intr | roductory part is o | dedicated to the |
| analogy of light and elec | ctron microscopy and to various types of microscopes. An important part of the course is given to the interaction of different to | ypes of radiation | with matter, |
| mathematical formulation | ns and tools used in microscopy and to the description of particular parts of the microscopes. Introduction to kinematic and d | ynamic theory of | diffraction, types |
| | on and imaging techniques are also covered. A particular attention is given to analytical methods and imaging techniques in | | = = |
| | | | 4 |
| 12EGS1 | English Graduate Standard 1 | KZ | 4 |
| Improving the knowledg | e in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pro | | |
| 18ESPG1 | e in English, English i resentation, English Discussions, creation of the teamned text, structures of important documents, i | oceedings to be p | |
| 1020101 | European Computer Driving Licence 1 | oceedings to be p | oublished 2 |
| | | Z | 2 |
| Spreadsheet calculators | European Computer Driving Licence 1 | Z duces the studen | 2 ts also into other |
| Spreadsheet calculators | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language | Z duces the studen | 2 ts also into other |
| Spreadsheet calculators office tools. The accent and user functions will be | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language addressed. | Z duces the studen e will be introduce | 2 ts also into other ed and macros |
| Spreadsheet calculators office tools. The accent and user functions will but 18ESPG2 | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 | Z duces the studen e will be introduce | 2 ts also into other ed and macros |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language the addressed. European Computer Driving Licence 2 tare an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to | Z duces the studen e will be introduce Z he winter semeste | 2 ts also into other ed and macros 2 er with advanced |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 | Z duces the studen e will be introduce Z he winter semeste | 2 ts also into other ed and macros 2 er with advanced |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language the addressed. European Computer Driving Licence 2 tare an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to | Z duces the studen e will be introduce Z he winter semeste | 2 ts also into other ed and macros 2 er with advanced |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators VBA programming topic | European Computer Driving Licence 1 s are an important tool, especially for students and graduates in Software engineering in economics. The winter semester intro is put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 s are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to s (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathematical engineering in economics. | Z duces the studen e will be introduce Z he winter semeste tics, operational r | 2 ts also into other ed and macros 2 er with advanced |
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| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators VBA programming topic computer science. 16EPAM Aims and methods of his archaeomagnetism), an photogrammetry. | European Computer Driving Licence 1 search an important tool, especially for students and graduates in Software engineering in economics. The winter semester introses put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language addressed. European Computer Driving Licence 2 search an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to see (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemate in the search of Historic Monuments and production technologies of artefacts (activation analysis, X-ray fluorescence and related methods, further radialytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and related methods). | Z duces the studen e will be introduce Z he winter semeste tics, operational r ZK diation methods, de analysis and othe | ts also into other ed and macros 2 er with advanced esearch, and 2 endrochronology, r methods), |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators VBA programming topic computer science. 16EPAM Aims and methods of his archaeomagnetism), an photogrammetry. | European Computer Driving Licence 1 sear an important tool, especially for students and graduates in Software engineering in economics. The winter semester introspect of sput on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 sear an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to see (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathematically incomposed in Research of Historic Monuments Exact Methods in Research of Historic Monuments Interior monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radialytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and related methods). Experimental Neutron Physics | Z duces the studen e will be introduce Z he winter semeste tics, operational r ZK diation methods, de analysis and othe | ts also into other and and macros 2 er with advanced esearch, and 2 endrochronology, r methods), |
| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators VBA programming topic computer science. 16EPAM Aims and methods of his archaeomagnetism), an photogrammetry. 17ENF The lectures are mainly | European Computer Driving Licence 1 sear an important tool, especially for students and graduates in Software engineering in economics. The winter semester introses put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 sear an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to see (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemate interface, add-inserved for Monuments Exact Methods in Research of Historic Monuments Interior monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radialytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and supplemental Neutron Physics focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, programming in economics. The winter semester introduces and graduates in Software engineering in economics. Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and graph in th | Z duces the studen e will be introduce Z he winter semeste tics, operational r ZK diation methods, de analysis and othe KZ perties of prompt | ts also into other and and macros 2 er with advanced esearch, and 2 endrochronology, r methods), 2 and delayed |
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| Spreadsheet calculators office tools. The accent and user functions will be 18ESPG2 Spreadsheet calculators VBA programming topic computer science. 16EPAM Aims and methods of his archaeomagnetism), an photogrammetry. 17ENF The lectures are mainly neutrons, neutron detections. | European Computer Driving Licence 1 sear an important tool, especially for students and graduates in Software engineering in economics. The winter semester introses put on advanced functions of MS Excel (names, functions and expressions, pivot table and graph). Next, the VBA language and eaddressed. European Computer Driving Licence 2 sear an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows to see (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemate interface, add-inserved for Monuments Exact Methods in Research of Historic Monuments Interior monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radialytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and supplemental Neutron Physics focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, programming in economics. The winter semester introduces and graduates in Software engineering in economics. Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and expressions, pivot table and graph). Next, the VBA language and graph in th | Z duces the studen e will be introduce Z he winter semeste tics, operational r ZK diation methods, de analysis and othe KZ perties of prompt applications. Las | ts also into other and and macros 2 er with advanced esearch, and 2 endrochronology, r methods), 2 and delayed t lecture deals |
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| 04FM2 French for Intermediate Students M2 | Z | 1 |
|--|--|--|
| Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science | | |
| and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French sc | ience and technolo | ogy, French |
| scientists, artists and architects. Description of an object, device, shapes, dimensions, material. 04FM3 French for Intermediate Students M3 | 7 | 1 |
| The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures | | • |
| participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in- | · | |
| field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative | work compiled fron | n French articles |
| and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and | coherence. | |
| 04FP1 French for Advanced Students P1 | Z | 1 |
| 04FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both | | |
| will be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit and to solve problems. 04FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar top | - | |
| subjonctif, passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of | • | - |
| statement, request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional cult | | = |
| mathematics, internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation. | | |
| 04FP2 French for Advanced Students P2 | Z | 1 |
| With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication of | on given topics. Fe | atures typical of |
| technical and scientific communication are stressed (passive voice, nominalization, word formation). | | |
| 04FP3 French for Advanded Students P3 | Z | 1 |
| The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in | | |
| skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally cotopic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. | overs a technical /a | ipplied science |
| 04FZ1 French for Beginners Z1 | Z | 1 |
| 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 | _ | - |
| The course includes French for specific / technical communication and reading of popular science and scientific texts. 04FZ1 The objective is to be a | = | • |
| level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravda | dová, French for be | ginners |
| (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions | - | - |
| giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronuncia | | |
| 04FZ2 French for Beginners Z2 The course is linking up with 04FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 | of the textbook: Pr | 1 avda Pravdová |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agree | | |
| thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral commence of the commenc | | |
| How does the machine work? A few expressions concerning the study. Name of University and Faculty. | | • |
| 04FZ3 French for Beginners Z3 | Z | 1 |
| The course builts upon 04FZ2. 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 i | information and loa | id as part of |
| | | ad as part or |
| pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. | | |
| 04FZ4 French for Beginners Z4 | Z | 1 |
| 04FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The | Z ne contents is roug | 1 hly covered with |
| 04FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. | Z ne contents is roug | 1 hly covered with |
| 04FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The | Z ne contents is roug | 1 hly covered with |
| 04FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons of FJFI. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, sho | Z ne contents is roug | 1 hly covered with |
| O4FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons of FJFI. The course covers generals and specific topics: health-illness, sport, free time, environment, study, travelling in France, Paris, sho country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. O4FZ5 French for Beginners Z5 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The | Z ne contents is roug ecture notes French opping, weather, un Z ey present it orally | 1 hly covered with a for Engineering niversity in our 1 in the class. The |
| O4FZ4 French for Beginners Z4 The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the less students of FJFI. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, sho country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. O4FZ5 French for Beginners Z5 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. | Z ne contents is rougecture notes French opping, weather, un Z ey present it orally Topics: on physics | 1 hly covered with a for Engineering niversity in our 1 in the class. The from lecture |
| The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is prepared in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. O4FZ5 French for Beginners Z5 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate of the course building in Figure 19 of the course of the c | Z ne contents is rougecture notes French opping, weather, un Z ey present it orally Topics: on physics | 1 hly covered with a for Engineering niversity in our 1 in the class. The from lecture |
| The course builds up on 04FZ3. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French science periods. The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, she country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. O4FZ5 French for Beginners Z5 All four skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate of subjunctive clauses, gerund, passive. | Z ne contents is roug ecture notes French opping, weather, un Z ey present it orally Topics: on physics clauses, typical con | 1 hly covered with a for Engineering niversity in our 1 in the class. The a from lecture njunctions, |
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| The course builds up on 04F23. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lessons 19 - 23 of the textbook French for Beginners and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, she country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. 04F25 French for Beginners Z5 All flour skills acquired in FZ4 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. notes, success of French science and technology, information about France. Grammar is systemized and complemented from other materials. notes success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate of subjunctive clauses, gerund, passive. 01FKP Functions of Complex Variable B Functions of Several complex variables together with improper line integrals and its applications are presented of the course aims to present selected fundaments of several complex variables together with improper line integrals and its applications are presented of mathematical analysis 1 Functional | z ne contents is roug ecture notes French opping, weather, un Z ey present it orally Topics: on physics clauses, typical con ZK s, transcendental a d. Z,ZK sh spaces, Hilbert s Z,ZK to understand the Z cs presented in the uipments. Z cs presented in the laboratory equipm Z | 1 hly covered with of or Engineering hiversity in our 1 in the class. The from lecture sigunctions, 2 and meromorphic 2 and meromorphic 4 spaces. 3 various physical 4 ir spectrum, 2 e course of lents. 2 |
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| The course builds up on 04F23. Basic linguistic knowledge and skills are further developed. Oral communication and reading skills are practiced. The lessons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lethosons 19 - 23 of the textbook French for Beginners, and is expanded with topics and functions from other materials. Reading is developed from the lethosons of Life to the visual properties of the textbook Practice (The Students of FJF). The course covers generals and specific topics: health- illness, sport, free time, environment, study, travelling in France, Paris, she country and in France, how to write CV, application, topics in mathematics, reading physics - mechanics, informatics, internet. 04F25 All four skills acquired in F24 are further developed, as well as technical language. Students prepare a paper on a chosen popular science topic. The general contents is covered by lessons 24 - 26 of the textbook: Pravda-Pravdova, French for Beginners, and is complemented from other materials. notes, success of French science and technology, information about France. Grammar is systemized and complemented with syntax (subordinate of subjunctive clauses, gerund, passive. 01FKP Functions of Complex Variable The course develops advanced properties of systems of holomorphic functions, Ascoli-Vitali's theorem, advanced properties of conformal mappings functions. Basic properties of complex functions of several complex variables together with improper line integrals and its applications are presented for FAN1 Functional Analysis 1 Basic notions and results are addressed concerning successively topological spaces, metric spaces, topological vector spaces, normed and Banac O1FA1 Functional Analysis 1 Basic notions and results are addressed concerning successively topological spaces, metric spaces, topological vector spaces, normed and Banac dechnical disciplines. 01FA2 Functional Analysis 2 Functional Analysis 2 T | z ne contents is roug ecture notes French opping, weather, un Z ey present it orally Topics: on physics clauses, typical con ZK s, transcendental a d. Z,ZK sh spaces, Hilbert s Z,ZK to understand the Z cs presented in the uipments. Z cs presented in the laboratory equipm Z | 1 hly covered with of for Engineering hiversity in our 1 in the class. The from lecture sigunctions, 2 and meromorphic 4 spaces. 3 various physical 4 ir spectrum, 2 e course of lents. 2 |

| 12INS2 | Information Systems 2 | Z,ZK | 2 |
|--|--|--|---|
| | on systems 1 is required. In more details: Information technology, architecture of the databases, network databases, cloud apunt, aproaches to solve task of information systems | oplication Google, | Microsoft, |
| 16ZJTB | Nuclear Energy Facilities and Accelerators | ZK | 2 |
| | ar reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most i | | _ |
| high-voltage accelerate | ors, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotron | s, electron and ior | sources for |
| accelerators, targets. | | | |
| 17JARE | Nuclear Reactors | ZK | 2 |
| · · | ver issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety sy | | |
| | rations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. F estinghouse, KWU, Framatom). VVER-type reactors , Temelín nuclear power plant. Boiling water reactors. Heavy water react | | , , |
| 1 | cooled reactors. Second nuclear era. reactors of generation III (EPR, AP-1000, VVER 1200). Reactors of generation IV: GIF a | | |
| and selection of propos | sed systems. Six selected concepts. ICRP scenarios of word evolution, hydrogen power, role of nuclear power in long-term ou | ıtlook | |
| 01JEPR | Simple Compilers | Z | 2 |
| | lysis, code generation, simple optimizations, development environments, reflection. | | |
| 16KPR | Clinical Propaedeutic | ZK | 2 |
| | ar with the basics of anamnesis, physical examination, examinational methods of different organs, hematological and biochemi | | and anaestnesia |
| 04AKS | English Conversation) the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of oral commun | Z Dication The stude | nt will develon |
| | ious communication situations and will master their communication strategy. They will also practise their listening skills in ordi | | |
| in discussions. The stu | dent will be trained to express their ideas clearly and according to current English usage, and become a more confident spea | ker. | |
| 02KF | Quantum Physics | Z,ZK | 3 |
| | function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heis | enberg uncertaint | y principle, |
| | momentum, solution of simple systems, hydrogen atom. | | |
| 02LCF1 | Experimental Laboratory 1 | Z | 2 |
| 02LCF2 | Elasticity.Thermal capacities. Electric measurements, Acoustic. Oscillations. | Z | 2 |
| | Experimental Laboratory 2 ield, microwaves, Xray and gamma rays, geometric optics | 4 | 2 |
| 12LT1 | Laser Technique 1 | Z,ZK | 3 |
| | lity. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an | | - |
| mode. ABCD method. (| Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion | on, saturation. Coh | erent and |
| non-coherent pulse pro | pagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical resonator. | | |
| 12LT2 | Laser Technique 2 | Z,ZK | 2 |
| | e equation, the laser amplifier, Q-switching, mode-locking | 7.71 | |
| 12LAS | Laser Systems second lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. | Z,ZK | 3 |
| | isecond lasers. Proosecond lasers. Fight energy laser systems. Laser rusion, blode-pumped solid state lasers, runable lasers iconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultr | | |
| | | aviolet lasers x-ra | av lasers High I |
| | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. | aviolet lasers. X-ra | ay lasers. High |
| | | Z,ZK | ay lasers. High |
| power continuous laser | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. | Z,ZK | 3 |
| power continuous laser 01LIP We study special proble inequalities). | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g | Z,ZK iven by linear equa | 3 ations and linear |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g Macroeconomics 1 | Z,ZK iven by linear equa | 3 ations and linear |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g Macroeconomics 1 rides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomics | Z,ZK iven by linear equal Z,ZK omic indicators, me | 3 ations and linear 4 oney market, |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I proving macroeconomic equilibrium | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g Macroeconomics 1 rides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic fluctuations, basic | Z,ZK iven by linear equal z,ZK omic indicators, more macroeconomic n | 3 ations and linear 4 oney market, nodels of IS-LM, |
| power continuous laser O1LIP We study special proble inequalities). 18MAK1 Macroeconomics I proving macroeconomic equilibility. AS-AD and their implications. | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g Macroeconomics 1 rides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomics | Z,ZK iven by linear equal z,ZK omic indicators, more macroeconomic n | 3 ations and linear 4 oney market, nodels of IS-LM, |
| power continuous laser O1LIP We study special proble inequalities). 18MAK1 Macroeconomics I proving macroeconomic equilibility. AS-AD and their implications. | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are g Macroeconomics 1 rides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic fluctuations, basic utions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phe | Z,ZK iven by linear equal z,ZK omic indicators, more macroeconomic n | 3 ations and linear 4 oney market, nodels of IS-LM, |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov macroeconomic equilib AS-AD and their implica and subsequently to us 18MAK2 | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 indes students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic trium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic attions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phese them under the conditions of modern economic life. | Z,ZK iven by linear equal z,ZK omic indicators, macroeconomic nomena and their z,ZK | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov macroeconomic equilib AS-AD and their implica and subsequently to us 18MAK2 Macroeconomics II exte economic growth, espe | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 index students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic rium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic attions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life. Macroeconomics 2 Ends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to | Z,ZK iven by linear equal z,ZK omic indicators, moreoconomic nomena and their z,ZK oeconomics. They omodern principle | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I provemacroeconomic equilibe AS-AD and their implication and subsequently to use the conomic growth, espemodeling, i.e., macroeconomics. | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 idea students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic multiple macroeconomic problems, inflation, unemployment, economic growth, economic fluctuations, basic tions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life. Macroeconomics 2 ends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide | Z,ZK iven by linear equal z,ZK omic indicators, moreoconomic nomena and their z,ZK oeconomics. They omodern principle | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I provemacroeconomic equilibities. AS-AD and their implication and subsequently to use the subsequently to use the subsequently in t | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 idea students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic multiple macroeconomic problems, inflation, unemployment, economic growth, economic fluctuations, basic tions for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life. Macroeconomics 2 and theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the content of th | Z,ZK iven by linear equalities Z,ZK omic indicators, me macroeconomic in nomena and their Z,ZK oeconomics. They of modern principle is students with modern macroeconomics. | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic odern knowledge |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I provimacroeconomic equilibities AS-AD and their implication and subsequently to us 18MAK2 Macroeconomics II extremodeling, i.e., macroeconomic growth, esperimodeling, i.e., macroeconomic labor market modeling 01MAPR | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 index students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic multiple students with a fundamental sof open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic the students of economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life. Macroeconomics 2 and theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. | Z,ZK iven by linear equalities and indicators, more macroeconomic in nomena and their compositions. They be modern principle is students with more z,ZK | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic dern knowledge |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov macroeconomic equilib AS-AD and their implica and subsequently to us 18MAK2 Macroeconomics II extre economic growth, esper modeling, i.e., macroeco of labor market modelin 01MAPR 18EKO1 | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are get about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are get about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are get about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are get about cons | Z,ZK iven by linear equal z,ZK omic indicators, moreoconomic nomena and their z,ZK oeconomics. They omodern principle is students with more z,ZK z,ZK z,ZK | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic odern knowledge 4 5 |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov macroeconomic equilib AS-AD and their implica and subsequently to us 18MAK2 Macroeconomics II extre economic growth, esper modeling, i.e., macroeco of labor market modelin 01MAPR 18EKO1 The course introduces | s. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming ems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are general macroeconomics 1 index students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic multiple students with a fundamental sof open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic the students of economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phere them under the conditions of modern economic life. Macroeconomics 2 and theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. | Z,ZK iven by linear equal z,ZK omic indicators, moreoconomic nomena and their z,ZK oeconomics. They omodern principle is students with more z,ZK z,ZK z,ZK | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic odern knowledge 4 5 |
| power continuous laser 01LIP We study special proble inequalities). 18MAK1 Macroeconomics I prov macroeconomic equilib AS-AD and their implica and subsequently to us 18MAK2 Macroeconomics II extre economic growth, esper modeling, i.e., macroeco of labor market modelin 01MAPR 18EKO1 The course introduces | Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron lasers. Linear Programming Image: Macroeconomics 1 Indees students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomic students with a fundamental sof open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic the them under the conditions of modern economic life. Macroeconomics 2 Indees students with a bility to analyze macroeconomic phese them under the conditions of modern economic life. Macroeconomics 2 Indees the students with the latest knowledge of contemporary macroecially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to conomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with the latest knowledge of contemporary macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with the latest knowledge of contemporary macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with the latest knowledge of contemporary macroeconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provide the students with the latest knowledge of contemporary macroeconomic models derived from microeconomic behavior of subjects and economic subjects a | Z,ZK iven by linear equal z,ZK omic indicators, moreoconomic nomena and their z,ZK oeconomics. They omodern principle is students with more z,ZK z,ZK z,ZK | 3 ations and linear 4 oney market, nodels of IS-LM, interconnections 4 are models of s of economic odern knowledge 4 5 |
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| | uction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential cir | , , | |
| | icrocomputer architecture and principles of interfacing is shown. | ound and complex | on cano mio |
| 12MPR1 | Microprocessors 1 | ZK | 4 |
| Microprocessor and mic | procomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes(direct, inc | direct, register, rela | ative,, stack |
| | s, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroass | sembler, programn | ning languages. |
| RISC processors - princ | | 714 | |
| 12MPR2 | Microprocessors 2 | ZK | 2 |
| 12MOF | types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assembler. description | ZK | 2 |
| _ | Molecular Physics mic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structure deteri | 1 | 2 |
| 12NT | Nanotechnology | ZK | 2 |
| | students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Phys | 1 | |
| | MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technological solution will be devoted to epitaxial technological solution. | | |
| nanostructure preparati | on. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for he | eterostructure and | nanostructure |
| - | ed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric la | yer preparation wil | I be mentioned |
| as well as soldering and | | 7 | |
| 02NSAD Data analysis and simul | Simulations and Data Analysis Tools ations of high energy elementary particle collisions. ROOT and Pythia programs. | Z | 2 |
| 04NM1 | German for Intermediate Students M1 | Z | 1 |
| | rse is to level off the students' skills in the German language. The course focuses on revision of more difficult phenomena and | d structures (e.g. t | ne passive) and |
| word formation process | es (e.g. importance of verb prefixes). In the lexical part, it covers topics referring to higher education in both the Czech Reput | olic and Germany, | current |
| | gether with all necessary expressions and phrases, expressions and phrases needed to chemists, mathematicians, physicist | s, and the fundam | entals of IT |
| | communication on related topics and is aimed at correct pronunciation, grammatical correctness and understandability. | - | 4 |
| 04NM2 | German for Intermediate Students M2 | Z | 1 |
| | ther more complex grammatical structures and their application in communication based on technical texts, such as the relation ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and | | |
| - | mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course system | | |
| phenomena important for | or professional discourse (participles, relative clauses). | - | |
| 04NM3 | German for Intermediate Students M2 | Z | 1 |
| | ther more complex grammatical structures and their application in communication based on technical texts, such as the relation | | |
| - | ng of the 21st century, linguistically more demanding texts on the environment, the language of mathematics, computers and | | |
| | mation and reading aloud, and appropriate language for various purposes in oral and written communication. The course systen or professional discourse (participles, relative clauses). | natically revises of | iei grammaticai |
| 04NP1 | German for Advanced Students P1 | Z | 1 |
| - | od grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be le | = 1 | ginning of the |
| course. The course is th | en focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for | detail). It revises a | and develops |
| - | tructures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on | practical everyday | communication, |
| i.e., telephoning. | | | |
| 04NP2 | German for Advanced Students P2 | Z | 1 |
| · | estudents' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extend Educes mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and | | |
| , , | V, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). | i practicing format | oorminamounom, |
| 04NP3 | German for Advanced Students P3 | Z | 1 |
| The course consists of | B main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a va | ariety of less comn | non situations |
| • | r accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vertical and subtechnical texts, the vertical and subtechnical texts are supported by the contract of the contr | , , | |
| • | ing, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used | | |
| practice to and from Ge | rocess information gained from their reading of complex and difficult texts and present it to the class in a simplified oral form. The | ne course also incl | ides translation |
| 01NME2 | Numerical Methods 2 | KZ | 2 |
| | numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equation | į. | |
| | ns to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial differential equ | - | ŭ |
| 02OR | General Relativity | ZK | 3 |
| Introduction to general t | heory of relativity: principle of equivalence and principle of general covariance, parallel transport and geodesic equation, gra- | vitational redshift. | Curvature and |
| - | aw. Schwarzschild solution of the Einstein equations, homogeneous and isotropic cosmological models. | | |
| 01POPJ1 | Computers and Natural Language 1 | Z | 2 |
| • | ational processing and understanding of natural languages. Automatic methods of morphological and syntactic analysis inclu- will be discussed. Two-level morphology, tagging and language models. Viterbi algorithm, grammars, chart parsing, probabil | - | stical methods |
| 01POPJ2 | will be discussed. Two-level morphology, tagging and language models, Viterbi algorithm, grammars, chart parsing, probabil Computers and Natural Language 2 | 7 | 2 |
| | s to get acquainted with the broad topic of machine translation (MT). Machine translation is a challenging task that can serve | - 1 | |
| - | as natural languages. We cover several rather different approaches to the task as well as issues related to automatic and ma | | - |
| quality. | | | |
| 11.1.7 | | | |
| 12POAL | Computer Algebra | KZ | 2 |
| 12POAL Lisp, representation of b | asic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetic | s, simplification, gr | eatest common |
| 12POAL Lisp, representation of b divisor, resultant, deriva | | s, simplification, gr | eatest common rn matching, |

| 01POGR1 Computer Graphics 1 | Z | 2 |
|--|---------------------------|----------------------|
| The first part of the two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state of the two-semester computer Graphics. | | _ |
| a survey of fundamental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems a | • | |
| algorithms using knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of the process of authoring scientific documents and presentations. | computer graphics | approaches in |
| | Z | 2 |
| 01POGR2 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 phe | - 1 | |
| graphics. Further, a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description of the descr | | |
| rendering. Focus is put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtain | ned in a variety of s | ubjects 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 the | oretical concepts a | re demonstrated |
| using Blender, an open-source 3D modeling and rendering software instrument. | | |
| 01SITE1 Computer Networks 1 | Z | 2 |
| Understanding the history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Networ | | |
| TCP/IP communications. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification (PKI). Use in practice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the | · · | = |
| 01SITE2 Computer Networks 2 | Z | 2 |
| Understanding the history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network | _ | |
| TCP/IP communications. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification | - | |
| (PKI). Use in practice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the | · · | = |
| 01POPR Advanced Probability | Z | 2 |
| The subject is devoted to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We | deal with sample a | and integral |
| characteristics of random variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parameters. | ric and nonparame | tric cases. |
| 12PEL1 Practical Electronics 1 | Z,ZK | 2 |
| Recapitulation of basics electronic, mathematical analyses of circuit solving. Measurement in electronic, measurement of frequency and phase. An | alogue to digital co | nverters and |
| digital signal processing. Function of voltmeter, ampermeter, oscilloscope, spectral analyser and logical analyser. | | |
| 12PEL2 Practical Electronics 2 | Z,ZK | 2 |
| Noise analyses in electronics, low noise electronics system design. Noise measurement. Time measurement. Printed circuit design. | | |
| 12PIN1 Practical Informatics for Technics 1 | Z | 2 |
| Computer and operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network inter Principles of operating systems. Requirements on operating system for research and technical computing. Operating system UNIX. Basic principles, ker | | |
| File system, file atributes, working with files. Text editors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling p | | |
| load a process priorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networks. | | = |
| protocols TCP/IP. Network configutation of a computer. Network services: hardware sharing, mail, ftp, etc. Network applications | | |
| 12PIN2 Practical Informatics for Technics 2 | Z | 2 |
| Practically oriented three semester course of basics and applications of informatics for science and engineering included as obligatory alternative | ourse. Constituent | part is realized |
| in computer classrooms. The second part of the course is "Introduction to computer algebra systems?. | | |
| 12PIN3 Practical Informatics for Technics 3 | Z | 2 |
| Practically oriented three semester course of basics and applications of informatics for science and engineering included as obligatory alternative of the seminative of the s | ourse. Constituent | part is realized |
| in computer classrooms. The third part of the course is "Introduction to scientific computing?. | 1/7 | 4 |
| 15INPR Laboratory Practice in Instrumental Methods | KZ | 4 The training is |
| Practical training of students in the use of selected modern instrumental methods and techniques for solving some physico-chemical analytical and carried out in the laboratories of Czech Academy of Sciences (Institute of Physical Chemistry) and partly in laboratory at the Department of Nuclear | | The training is |
| 01PRA1 Probability and Mathematical Statistics 1 | Z,ZK | 6 |
| The subject is devoted to the introduction to Theory of probability and statistics on measure-theoretic level for discrete models, continuous distribut | 1 | |
| random variables. We deal with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This k | ŭ | |
| statistical processing of observations and statistical parametric model estimation. | | -11 |
| 01PRA2 Probability and Mathematical Statistics 2 | ZK | 2 |
| The subject is devoted to the statistical techniques for estimation and testing within parametric and nonparametric models such as Maximum likelihoo | d principle, Uniform | ly most powerful |
| tests, Goodness of fitness tests of models, confidence regions, etc. We focus on real practical applications of these statistical techniques in frame of | of the specific exam | ples. |
| 01PRST 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 a | _ | - |
| definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic lim | | ted and proved. |
| On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are ex | ` | 4 |
| 01PRSTB Probability and Statistics B It is a basic course of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition a | KZ | 4 ne Kolmogorov |
| definition. The notions as random variable, distribution function of random variable and characteristics of random variable are treated and basic lim | - | _ |
| On the basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing are ex | | ica ana provea. |
| 16UAZB Principles of Ionizing-Radiation Applications | ZK | 2 |
| Historical outline of applications, review of interaction of radiation with a matter, radiation sources, detectors and instrumentation, evaluation of radiations. | 1 1 | |
| penetration and scattering of radiation beams, selected radioanalytical methods, tracer methods, radionuclide dating, further possibilities for the us | | |
| 16FNZB Problems of Non-ionizing Radiation | ZK | 2 |
| Subject is focused on biological effects of non-ionizing radiation and its use in physical praxis. Information about principles, biological effects and m | ethods used in field | ds of magnetic |
| resonance and ultrasound as applied in various types of technical or medical equipment are given as well. | | |
| 12PSEM Problem Seminary | Z | 2 |
| 25 seminaries with topics from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and a | | |
| 01PROP Programmer's Practicum | Z | 2 |
| The purpose of this course is to acquire good programming habits which will help in writing of clean code, i.e. such that is easy to comprehend by a functionality. Using exception examples, the students get families with paping conventions, and continue through writing project documentation, price | | - |
| functionality. Using specific examples, the students get familiar with naming conventions, and continue through writing project documentation, princ | ipies of defensive p | orogramming, |
| debugging, up to creating object-oriented design, design patterns and refactoring. O1DEDI Programming of Poriphorals Devices | 7 | 2 |
| 01PERI Programming of Peripherals Devices Memory organization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of peripherals | Z als device drivers | 2 |
| 01PW Windows Programming | Z | 2 |
| Simple graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identification and | 1 1 | _ |
| . 5 5 | | |

| . | | | 1 |
|--|--|--|---|
| 18PRC1 | Programming in C++ 1 nly the C programming language and non-object oriented features of the C++ language. | Z | 4 |
| 18PRC2 | Programming in C++ 2 | KZ | 4 |
| | object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard Template | | |
| 18PJ | Programming in Java | Z,ZK | 5 |
| | o the Java platform and to the development of the basic types of applications for this platform. | 7 71/ | |
| 18MTL Introducing Matlab envi | Programming in MATLAB computation in complex arrays and symbolic variables, namely for linear algebra, mathematic ar | Z,ZK | 5 |
| and geometric represen | | iaryoio, otatiotico, t | aigontiiniization |
| 18MPT | Programming in MATLAB | KZ | 5 |
| ' ' | tudents with various programming techniques in the Matlab environment. The emphasis is placed on the differences in programming | ramming methodo | ology in Matlab |
| compared to classical la | | 7 | 1 |
| 18PAS | Pascal Programming mainly for students, with little or no experience in programming. It familiarizes the students with the basic concepts in programming. | Z | 4 he Pascal |
| programming language. | mainly for students, with fitte of no experience in programming. It familiarizes the students with the basic concepts in progra | inining and with t | ne i ascai |
| 12PDR1 | Data Communication and Interfaces 1 | Z | 2 |
| Principles of computer r | networks, networks architectures and data transfer. Specification of existing network architectures. | | |
| 12PDR2 | Data Communication and Interfaces 2 | Z | 2 |
| | andards and basics of protocol suite TCP/IP. | 7 | |
| 01PSL | LaTeX - Publication Instrument of the basics and facilities of computer typography, particularly to the system LaTeX | Z | 2 |
| 02RQGP1 | Seminar on Quark-Gluon Plasma 1 | Z | 1 |
| | is discuss the selection of the most fundamental articles in heavy ion physics. | _ | |
| 02RQGP2 | Seminar on Quark-Gluon Plasma 2 | Z | 1 |
| The aim of the seminar | is discuss the selection of the most fundamental articles in heavy ion physics. | | |
| 04RM1 | Russian for Intermediate Students M1 | Z | 1 |
| | for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alpha nmunication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, ask | | ** |
| | nmar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievemen | | |
| - | he course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. | | |
| 04RM2 | Russian for Intermediate Students M2 | Z | 1 |
| 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 timetable. | | |
| 04RM3 | Russian for Intermediate Students M3 | Z | 1 |
| · · | e knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, h | nowever, for half of | f the time allotted |
| in the timetable. 04RP1 | Pussian for Advanced Students P1 | 7 | 1 |
| | Russian for Advanced Students P1 ent for the course is revision of standard language structures, present for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, presented to the course is revision of standard language structures, presented to the course is revision of standard language structures. | _ | ' |
| | | aciicino more dilli | icuit drammar |
| structures, understandir | ng the fundamentals of technical language and training writing skills. | acticing more dim | cuit grammar |
| structures, understandir 04RP2 | | Z | cuit grammar |
| 04RP2 The course is based on | ng the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, | Z | 1 |
| 04RP2 The course is based on structures). Stress is pu | ng the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. | Z verb aspects, spe | 1 ecific syntactic |
| 04RP2 The course is based on structures). Stress is pu 04RP3 | ng the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to nindependent oral and written communication. Russian for Advanced Students P3 | Z verb aspects, spe | 1 ecific syntactic |
| 04RP2 The course is based on structures). Stress is pu 04RP3 The course is based on | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra | Z verb aspects, spe | 1 ecific syntactic 1 The RP1 - RP3 |
| 04RP2 The course is based on structures). Stress is pu 04RP3 The course is based on courses require good pri | ng the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to nindependent oral and written communication. Russian for Advanced Students P3 | Z verb aspects, spe Z sing, translation). The courses deve | 1 ecific syntactic 1 The RP1 - RP3 elop and expand |
| 04RP2 The course is based on structures). Stress is pu 04RP3 The course is based on courses require good pri these skills. Further study | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) | Z verb aspects, spe Z sing, translation). The courses devid written interpreta | 1 ecific syntactic 1 The RP1 - RP3 elop and expand ation). Students |
| 04RP2 The course is based on structures). Stress is pu 04RP3 The course is based on courses require good pr these skills. Further studevelop their subtechnical topics. | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write | Z verb aspects, spe Z sing, translation). The courses devid written interpreta | 1 ecific syntactic 1 The RP1 - RP3 elop and expand ation). Students |
| 04RP2 The course is based on structures). Stress is pure 04RP3 The course is based on courses require good process these skills. Further study develop their subtechnical topics. 04RZ1 | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write Russian for Beginners Z1 | Z verb aspects, spe Z sing, translation). The courses devid written interpreta | 1 The RP1 - RP3 elop and expand ation). Students th confidence on |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good put these skills. Further studevelop their subtechnicatechnical topics. 04RZ1 The course represents to | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to on independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and scal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write Russian for Beginners Z1 he first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus | Z verb aspects, spe Z sing, translation). The courses devid written interpreta accurately and wi | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 ss with mastering |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good process the skills. Further study develop their subtechnicatechnical topics. 04RZ1 The course represents the Russian alphabet (fit | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, ton independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and cal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write Russian for Beginners Z1 | Z verb aspects, spe Z sing, translation). The courses devid written interpreta accurately and wi | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 ss with mastering |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good process the skills. Further study develop their subtechnicatechnical topics. 04RZ1 The course represents the Russian alphabet (fit | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to on independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and scal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write Russian for Beginners Z1 he first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak latress, understand its contents and summarize it. | Z verb aspects, spe Z sing, translation). The courses devid written interpreta accurately and wi | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 ss with mastering |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good put these skills. Further studevelop their subtechnical topics. 04RZ1 The course represents the Russian alphabet (for a short text with marked 04RZ2 | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to on independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra revious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and scal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write Russian for Beginners Z1 he first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak) | Z sing, translation). The courses devided written interpreta accurately and with the sian. Thus it beginking). Students will | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 s with mastering II be able to read |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good put these skills. Further studevelop their subtechnical topics. 04RZ1 The course represents the Russian alphabet (for a short text with marked 04RZ2 The second semester of able to communicate us | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to on independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra vervious knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) by is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and variation value of the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak stress, understand its contents and summarize it. Russian for Beginners Z2 f the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will | Z verb aspects, special specia | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 s with mastering I be able to read 1 Students will be |
| 04RP2 The course is based on structures). Stress is put 04RP3 The course is based on courses require good put these skills. Further studevelop their subtechnical topics. 04RZ1 The course represents the Russian alphabet (for a short text with marked 04RZ2 The second semester of able to communicate us master further grammat. | Russian for Advanced Students P2 RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, to on independent oral and written communication. Russian for Advanced Students P3 RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphra evolus knowledge of general language at secondary level (listening, reading, correct communication in everyday situations) dy is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and scal vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Rus or both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speak stress, understand its contents and summarize it. Russian for Beginners Z2 f the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short sing short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will ical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing. | Z verb aspects, special special special spects, special specia | 1 The RP1 - RP3 elop and expand ation). Students th confidence on 1 s with mastering I be able to read 1 Students will be |
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| The course is designed for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semester course develops standard vocabulary and pays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the imperative, and subjunctive), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading texts or listening to them. 04SM2 | 04SM1 Spanish for Intermediate Students M1 | Z | 1 |
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| D4SM2 Spanish for Intermediate Students M3 The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for specific purposes in order to be able to work with specialized texts on the Internet. O4SM3 Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. O4SP1 Spanish for Advanced Students P1 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR. O4SP2 Spanish for Advanced Students P2 Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. O4SP3 Spanish for Advanced Students P3 Course 04SP3 is the final part of the advanced Spanish course, it is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. O4SP1 Spanish for Beginners Z1 Course 04SP3 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundamental grammar structures and will be able to communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spanish and will develop it. O4SP2 Spanish for Beginners Students Z2 Course 04SP2 is based on course | vocabulary and pays attention to further grammar topics (e.g., perífrasis verbales, futuro imperfecto, direct object and indirect object pronouns, neg | ative form of the in | nperative, and |
| The course develops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for 'specific purposes in order to be able to work with specialized texts on the Internet. O4SM3 Spanish for Intermediate Students M3 Z 1 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. O4SP1 Spanish for Advanced Students P1 Z 1 Course concentrates on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. Course prerequisites: level B2 of CEFR. O4SP2 Spanish for Advanced Students P2 Z 1 Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. O4SP3 Spanish for Advanced Students P3 Z 1 Course 04SP3 is the final part of the advanced Spanish course, it is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. O4SP1 Spanish for Beginners Z1 Z 1 Course 04SP3 is the final part of the advanced Spanish course, it is based on texts chosen by the students according to their future specialization. It is focused on written communication based on what students will need in their career. O4SP3 Spanish for Beginners Z1 Z 1 Course 04SP3 is the first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics an | | | |
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| D4SM3 Spanish for Intermediate Students M3 The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. O4SP1 | | r specific purposes | s in order to be |
| The course books are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academic style. They will be competent enough to use the Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short articles and summaries. The final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. O4SP1 | | 7 | 1 |
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| final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral examination. O4SP1 | | | • |
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| Course SP2 is the second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and syntax and focuses on independent written communication. O4SP3 | | | |
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| The course is based on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the Spanish-speaking countries, mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral | | | |
| mainly of Spain. It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative). It includes written and oral | 1 1 | - | 1 |
| | | | _ |
| | communication on a given general topic, for which the student is trained by reading texts or listening to them. | ve). It includes Will | uen anu orai |

| 04SZ4 | Spanish for Beginners Z3 | 7 | 1 |
|----------------------------|--|----------------------|----------------------|
| | n course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spani | _ | tries, 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, ar | nd subjunctive), |
| to 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. | | |
| 04SZ5 | Spanish for Beginners Z5 | Z | 1 |
| | supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanisl | h for specific purp | oses. In its final |
| | sh course based on the course book will end with presentations and, finally, a written and oral examination. | | Γ |
| 14TM | Engineering Mechanics | Z,ZK | 4 |
| | a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with the stress and strain and | | · |
| 14TEM | Engineering Mechanics | Z,ZK | 6 |
| | epresents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and stra- cture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application. | in analysis of real | structure parts |
| 12TAIS | Ion Beam Techniques and Applications. | ZK | 3 |
| 1 | g of ion beam, charged particle optics, interaction of ion with solid matter, technological and analytical applications. | |] 3 |
| TV-1 | Physical Education | Z | 1 |
| TV-2 | Physical Education | Z | 1 |
| TV-3 | Physical education | Z | 1 |
| TV-4 | Physical education | Z | 1 |
| 01DYSY | Theory of Dynamic Systems | ZK | 3 |
| l . | n introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems a | | _ |
| 1 | of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system | - | |
| 1 ' | ariable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obs | | |
| explained with the emph | hasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. | All stabilizing fee | dback controllers |
| are also parameterized | using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both | continuous and | discrete time. |
| 01TKO | Theory of Codes | ZK | 2 |
| _ | d in error detecting and error correcting codes. | | |
| 01TOP | Topology | ZK | 2 |
| | e systematization and deepening the knowledge of general topology. | | |
| 16MCRB | Transport of Ionizing Radiation and Monte Carlo Method | Z,ZK | 4 |
| 1 | es of Monte Carlo method and its use for radiation transport simulation, selected concepts of probability theory and mathemat | - | |
| | ypes of radiation and their use for stochastic modeling of their substance transport. Model description concepts, geometric m | ·= | _ |
| _ |) of measured variables and parameters. Statistical evaluation of reliability of modeling results, variance reduction methods, pro CNP program, its possibilities and use. Procedures for the practical use of the program for typical tasks in the field of dosimetr | - | |
| 1 . | n systems, radiation protection and medical applications. | y, application of it | Jilizilig radiation, |
| 18INTA | Development of internet applications | KZ | 4 |
| _ | n overview of modern technologies for the development of web applications. Students will learn basic web languages and con | l | · · |
| 1 | to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simple | | |
| is oriented primarily tov | wards backend technologies and using the Python languages, but covers also frontend frameworks and JavaScript. | | |
| 01DYK | Introduction to Continuum Dynamics | Z | 2 |
| This course is an introd | duction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with en | nphasis on vector | and tensor |
| | ms, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensors or | | |
| | derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differential | form. In the last p | art of the course, |
| | s are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body. | 1/7 | |
| 16ZIVB | Introduction to Ecology | KZ | 2 |
| indicators and sustaina | ut basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the en the development | ivironment and ev | aluate economic |
| 02UFEC | Introduction to Elementary Particle Physics | Z | 2 |
| | n easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the subject | l | _ |
| 11UFPLN | Introduction to Solid State Physics | ZK | 2 |
| | ture is to introduce the undergraduate students to the study of the solid state physics. | 213 | _ |
| 17UINZ | Introduction to Engineering | Z,ZK | 3 |
| | to an introduction to the engineering profession. Students will gradually learn the characteristics and specialties of engineerin | | |
| the basics of selected e | engineering disciplines, such as the basics of materials science, manufacturing technology, quality control and assurance and | l ecology. Further | the course will |
| focus on some issues of | of R&D activities organization and on selected parts of technical drawings and the work with AutoCAD code. | | |
| 02UKP | Introduction to Curves and Surfaces | Z | 2 |
| The goal of the lecture | is an introduction to the differential geometry of simple manifolds - curves and two-dimensional surfaces. The basic concepts | for the curves are | e introduced |
| | xplained. In the surface theory we introduce first and second fundamental forms and mean and Gaussian curvature. Essential p | art of the lecture | are the examples |
| calculated by students | | | |
| 12ULT | Introduction to Laser Technique | Z,ZK | 3 |
| | gnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase | _ | |
| 12UMF | Introduction to Modern Physics | Z | 3 |
| | to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics cours | e. A part of the co | urse is delivered |
| in a computational labo | | 7 71/ | 4 |
| 18UOA | Introduction into Object Oriented Architecture | Z,ZK | 4 |
| 01UTIZ | Introduction to Theoretical Informatics | ZK | 2 |
| 11UVOD | Introduction to Specialization | Z | 2 |
| | ture is to introduce the undergraduate students to the physical master degree study programmes. | | |
| 12VAK | Vacuum Physics and Technology | KZ | 4 |
| _ | concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporation, | _ | • |
| _ | acuum generation. Pumping process. Pumps. Vacuum measurements: vacuum gauges of total and partial pressure; pumping terials and vacuum instalation parts. Practical exercises. | speeu, gas 110W, (| oriuuctivity, |
| Courseling for leaks. IVId | name and resident mediation partor i resident overtopes. | | |

| 12PYTH | Scientific Programming in Python | Z | 2 |
|---------------------------------------|--|---------------------------|------------------------|
| | s to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is p | | |
| • | s performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude earch. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented o | | |
| | se focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciP | | - |
| - : | generate efficient code, how to combine Python with other languages, what tools are available. | , | 3 4 |
| 12VTV | Scientific and Technical Computing | Z | 2 |
| The students get familia | ar with methods of solving of computational problems in the scientific and technical practice, and with methods of their progra | mming. The cours | se is oriented |
| | in the Fortran language. | | |
| 12VFT | High Frequency and Impulse Circuitry | Z,ZK | 2 |
| • | to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation by transverse and pulse generators. | solution, Gunn's | aloaes, nign |
| 17VYR | Research Reactors | ZK | 2 |
| | search reactors and their applications for the need of research and industry. Students get familiar with research reactor types a | l . | |
| along with experimental | equipment needed for particular applications and their specifics. The course is supported by technical visit to research react | or workplace. | |
| 12EPR1 | Basic Electronics Practicum 1 | KZ | 3 |
| • | m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation | on of the results. T | he practicum |
| consists of blocks lastin | Basic Electronics Practicum 2 | KZ | 3 |
| | m is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation | | _ |
| consists of blocks lastin | | | , |
| 12ZPLT | Basic Laser Technique Laboratory | KZ | 6 |
| | AG laser, laser crystal, laser discharge lamp, laser cavity, resonator, free-running, Q-switching, laser amplifier. second harmo | - | lischarges, laser |
| | d:YAG laser, CO2 laser marking, laser materials properties, non-linear transmission, laser beam transverse profile, acousto- | · | |
| 12ZPOP | Basic Optical Laboratory | KZ | 6 |
| 18ZALG | es give advanced practical skills by experimental work in optics and optoelectronics. Laboratory records must be elaborated. | 7 71/ | 4 |
| | Basics of Algorithmization to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of the | Z,ZK | - |
| 16AMMB | Fundamentals of Analytical Measurement Methods | ZK | 2 |
| | cal performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, ti | | _ |
| polarography, refractom | netry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X- | ay structural anal | ysis, nuclear |
| | spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. | | |
| 16ZBAF1 | Fundamentals of Human Biology, Anatomy and Physiology 1 | Z,ZK | 4 |
| | ystems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecul Il human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive syster | _ | - |
| - | of respiration. Excretory and genital tract. | Tana ito priyololog | gy. respiratory |
| 16ZBAF2 | Fundamentals of Human Biology, Anatomy and Physiology 2 | Z,ZK | 4 |
| Heart and physiology of | f cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blo | od clotting. Overvi | iew of nerves. |
| | d physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, endocrine gla | | |
| 16ZDOZ2 | Fundamentals of Radiation Dosimetry 2 | ZK | 2 |
| • | ical effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principl ttion of activity and neutron source emission. Measurements of absorbed dose and exposure. | es and methods o | f measurements |
| | Fundamentals of Radiation Dosimetry 1 | Z,ZK | 1 |
| | and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, | | nsfer and |
| | als of the effects of ionizing radiation. | , 3, | |
| 17ZEH | Basics of Economic Assessment | ZK | 2 |
| | the economic evaluation of Nuclear power plants. Introductory lectures are concerned with an introduction to economy and the | - | |
| | res continued with insight into the business and managerial economics, explanation of the concepts of incomes, expenses, etc. | and their applicat | tions in electrical |
| | ation. Second part of lectures is focused on evaluation of nuclear power plants - the fuel cycle and operations of NPP. | KZ | 2 |
| 17ZEL | Basics of Electronics information of electronics. In the beginning, lectures are devoted to passive components - resistors, capacitors, inductors and | | 3 ical circuits with |
| · · | al with semiconductor components (standard, Zener, capacitive, LED), bipolar, unipolar transistors and semiconductor compo | | |
| and triacs). Lectures co | ntinue with general amplifiers and operational amplifiers. Finally, lectures deal with digital circuits, digital/analog and analog/c | ligital converters. | Lectures are |
| completed with electron | | | |
| 12ZEL1 | Basic Electronics 1 | Z,ZK | 3 |
| | imary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Cir c and complex method are explained. Proper circuit analysis is also lectured. The subject's final part deals with transient effec | = | |
| 12ZEL2 | Basic Electronics 2 | Z,ZK | 3 |
| | with the Basic Electronics 1. Semiconductor elements basic properties are explained. Thecourse's final part deals with basic | | |
| 02ZFM1 | Foundations of Physical Measurements 1 | Z | 2 |
| The lecture is designed | for students of physical specializations (Experimental particle physics, Physical engineering, Nuclear engineering), however, | it can be attended | d by students of |
| = | al of the lecture is to introducethe basics of physical measurements, the methods of processing and evaluation of acquired do | ata on a PC. Stude | entslearn the |
| basic habits of work in a | · · | 7 | ^ |
| 02ZFM2 This introductory course | Foundations of Physical Measurements 2 is devoted to the essentials of measurements of the most important physical quantities. It is especially recommended to thos | Z se students who ar | 2 re going to study |
| | ricula - Physical engineering and Nuclear engineering. Also the methods of evaluation of statistical data using PC and practical | | |
| · · | arn main rules connected with experimental work in physical laboratory. | | |
| 11ZFPL | Basic to Solid State Physics | KZ | 2 |
| · · · · · · · · · · · · · · · · · · · | ntal properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bon | - | |
| = = = | crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and b ic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons | | = |
| · · · · · · · · · · · · · · · · · · · | ic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons d. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to | | |
| | menological basis of physical properties of crystalline solids | ,, | - |
| | | - | |

| 12ZFP | Principles of Plasma Physics | Z,ZK | 4 |
|--|--|--|--|
| | n temperature plasmas is explained using particle, kinetic and fluid approaches. It includes drift motions and adiabatic invariant | | |
| | electromagnetic waves in inhomogeneous plasmas. Basic non-linear effects, such as ponderomotive force, self-focusing and pa | - | - |
| | roduction into magnetohydrodynamics and nuclear fusion. Basics of atomic physics od multiply-ionized plasmas are introduced | | |
| 02ZJF | Nuclear Physics | Z,ZK | 6 |
| - | resents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic d | | _ |
| - | e behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics. | iomam, where much | i oi oui ciassic |
| | | KZ | 3 |
| 02ZJFB | Nuclear Physics B | | _ |
| - | resents formidable challenges both experimentally and theoretically, simply because we are dealing with the submicroscopic d | iomain, where mucr | i oi oui ciassic |
| | e behaviour of objects fails us. The lecture is a basic introduction to very interesting regions of subatomic physics. | 71/ | |
| 15ZKJE | Nuclear Power Plants Design and Operation | ZK | 3 |
| • | create basic knowledge of physics of nuclear reactors utilizing fission. Further explains arrangement of nuclear fuel, purpose, tec | • | |
| | d construction of all components are defined wit regard to nuclear physics, physics of shielding, theory of regulation, material s | | |
| = | nowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison wi | | |
| | strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear sources of energy. | uciear power station | is. iniornis ado |
| | aste and spent fuel and their management. | 7.71 | |
| 16MEZB | Fundamentals of Ionizing-Radiation Metrology | Z,ZK | 4 |
| | izes the basic objectives and content of ionizing radiation metrology. It deals with the interpretation of radiation quantities and under the content of ionizing radiation metrology. | | |
| · · · · · · · · · · · · · · · · · · · | rimental foundations of metrology, the determination of basic parameters of radiation. Lectures are supplemented with basic si | ummary of relevant | legislation and |
| regulations. | | | |
| 01ZOS | Introduction to Operating Systems | Z | 2 |
| ntroduction to struct | ure of operating systems. Processes, thread, memory management. Synchronization of multi=threaded applications. Memory | mapped files. | |
| 12ZAOP | Fundamentals of Optics | Z,ZK | 2 |
| he lecture covers the | ne very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and ge | eometrical optics. Th | e main goal of |
| he lecture is to obta | in, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with re | spect to character of | of the bachelor |
| vork Particular tonic | | | |
| ork, i articulai topic | es are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane way | es in vacuum (inclu | ding polarizatio |
| ffects), and further nisotropic media, it | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere | ct informs on consecution on consecution of the con | quences in lains elements |
| effects), and further anisotropic media, it of two-wave interfere | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a gra | ct informs on consect ence processes, exp aphical form, includi | quences in lains elements ng fundamenta |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grabased on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics | et informs on consect ence processes, exp aphical form, includion s limit. It takes notice | quences in lains elements ng fundamenta |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a gra Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics ubstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instruments. | at informs on consection on consection on consection on consection on consection on consection on the control of the control o | quences in lains elements ng fundamenta e on geometric |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grabased on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics | at informs on consection consec | quences in lains elements ng fundamenta e on geometrica |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s 01ZPB1 | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a gra Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics ubstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instruments. | at informs on consection on consection on consection on consection on consection on consection on the control of the control o | quences in lains elements ng fundamental e on geometrica |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s 01ZPB1 16ZPSP | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grassed on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optical ubstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrume. Introduction to Computer Security 1 | et informs on consection consecti | quences in lains elements ng fundamenta e on geometric 2 |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s 01ZPB1 16ZPSP The aim of the cours | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grassed on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrume Introduction to Computer Security 1 Basic Work with PC | et informs on consectence processes, expaphical form, including s limit. It takes notice ents. | quences in lains elements ng fundamenta e on geometric 2 2 ion systems ar |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, s 01ZPB1 16ZPSP The aim of the cours resources available a software) with exercise | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a gra Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrume Introduction to Computer Security 1 Basic Work with PC e is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text e ses in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bache | et informs on consectence processes, expaphical form, including is limit. It takes notice ents. Z devoted to informate ditor, spreadsheet a elor's and diploma the | quences in lains elements ng fundamenta e on geometric 2 2 ion systems ar and presentationeses) and in |
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| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, sol1ZPB1 16ZPSP The aim of the cours resources available a software) with exercispecific practice (hos | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interfere nce and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a gra Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrume Introduction to Computer Security 1 Basic Work with PC e is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text e ses in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bache | et informs on consectence processes, expaphical form, including is limit. It takes notice ents. Z devoted to informate ditor, spreadsheet a elor's and diploma the | quences in lains elements ng fundamenta e on geometrice 2 ion systems an and presentationeses) and in |
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| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, so D1ZPB1 16ZPSP The aim of the cours esources available a software) with exercise pecific practice (hostome exercises and 16ZRAO The aim of the cours | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grabased on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics ubstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrume Introduction to Computer Security 1 Basic Work with PC te is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text elses in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bache spitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and participation in exercises above 60% is a necessary condition for passing the course. Basics of Radiation Protection | et informs on consectence processes, expaphical form, including is limit. It takes notice ents. Z devoted to informat editor, spreadsheet a elor's and diploma the security. Completion Z nd concepts, in order | quences in lains elements ng fundamenta e on geometric 2 2 ion systems ar and presentationeses) and in of independer 2 er to allow critical |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, so D1ZPB1 16ZPSP The aim of the cours resources available a software) with exercise pecific practice (hostome exercises and 16ZRAO The aim of the cours orientation in this fie | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grass Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrumed Introduction to Computer Security 1 Basic Work with PC The is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text esses in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bache spitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and participation in exercises above 60% is a necessary condition for passing the course. Basics of Radiation Protection The main emphasis is put on basic mechanisms are to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms are | et informs on consectence processes, expaphical form, including a limit. It takes notice ents. Z devoted to informat editor, spreadsheet a elor's and diploma the security. Completion Z and concepts, in order ow it is dangerous for the security of the | quences in lains elements ng fundamenta e on geometric 2 2 ion systems ar and presentationeses) and in no findepender 2 er to allow criticor people, wha |
| effects), and further anisotropic media, it of two-wave interfere of grating diffraction. approach imaging, so D1ZPB1 16ZPSP The aim of the cours resources available a coftware) with exercise pecific practice (hostome exercises and 16ZRAO The aim of the cours or interface of the cours or interface of professional for the cours or interface of professional for the meaning of professional interface of the cours or interface of the cours of the cours or interface of the cours or interface of the cours or interface of the cours of the cours of the cours of the cours or interface of the cours of the c | from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It nex explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a grabased on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics ubstitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical instrumed introduction to Computer Security 1 Basic Work with PC The is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text eless in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bache spitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and participation in exercises above 60% is a necessary condition for passing the course. Basics of Radiation Protection The main emphasis is put on basic mechanisms are its to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms are its to familiarize students with the general principles of radiation protection. The content of the lectures does not required. The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and hotective units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not required. | et informs on consectence processes, expaphical form, including a limit. It takes notice ents. Z devoted to informat editor, spreadsheet a elor's and diploma the security. Completion Z and concepts, in order ow it is dangerous for the security of the | quences in lains elements ng fundamenta e on geometric 2 2 ion systems ar and presentationeses) and in no findepender 2 er to allow criticor people, wha |
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List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|--------|--|------------|---------|
| 00EKOT | Economy in Technology | Z | 1 |
| ' | The course introduces the basics of micro- and macroeconomics. | , | |
| 00ETV | Ethics of Science and Technology | Z | 1 |
| 00MAM1 | Essentials of High School Course 1 | Z | 1 |

| 00PT | Essentials of High School Math Course 2 Review of basics of high school mathematics. | Z | 1 |
|--|--|--|--|
| | Preparatory Week | Z | 2 |
| 00RET | Rhetoric | Z | 1 |
| | used on the acquisition of speech and voice techniques and on the rules of correct pronounciation. The course is also devoted to the | | blic speech |
| as well as to its | nonverbal aspects. Stylistics exercises, strategies for coping with stage-fright and a short excursion into the history of rhetoric are an | integral part of the | e course. |
| 00UPRA | Introduction to Law | Z | 1 |
| 00UPSY | Introduction to Psychology | Z | 1 |
| 01ALG | Algebra | ZK | 4 |
| | n into the set theory standard algebraic structures are dealt with: groups, rings, fields, modules, linear algebras, lattices, Boolean algebras, commutative fields. | | nomials over |
| 01ALGE | Algebra | Z,ZK | 6 |
| - | xioms are treated in detail. Elements of the set theory cover only: equivalence and subvalence, the Cantorov-Bernstein theorem, the a | | |
| statements, definit | tion of ordinals and cardinals. Further standard algebraic structures are addressed: semigroups, monoids, groups, rings, integral doma fields, lattices. Independent chapters are devoted to divisibility in integral domains and to finite fields. | ains, principai ide | ai domains, |
| 01DEM | History of Mathematics | Z | 1 |
| | e form of regular seminars where the members of the department of mathematics, but also invited speakers - specialists in the field - gi | _ | 1 |
| | from the history of mathematics. | | |
| 01DIFR | Differential Equations | Z.ZK | 4 |
| • | is introduction in the solution of ordinary differential equations. It contains a survey of equation types solvable analytically, basics of th | , | 1 |
| | linear types of equations and introduction in the theory of boundary-value problems. | | |
| 01DIM1 | Discrete Mathematics 1 | Z | 2 |
| | The seminar is devoted to elementary number theory and applications. It includes individual problem solving. | | · |
| 01DIM2 | Discrete Mathematics 2 | Z | 2 |
| | The seminar is devoted to recurrence relations. It includes individual problem solving. | | |
| 01DIM3 | Discrete Mathematics 3 | Z | 2 |
| The subject is dev | oted to elementary proofs of non-trivial combinatoriwal identities and to generating functions and their applications. In the seminar stu | dents present a p | roblem with |
| | solution chosen from the given literature. | | |
| 01DYK | Introduction to Continuum Dynamics | Z | 2 |
| | n introduction to the mathematical description of continuum dynamics. It summarizes the necessary mathematical apparatus with emp | | |
| | al forms, and integration on manifolds. It includes the basic concepts of continuum mechanics such as strain and stress tensors or sub- | | = |
| or which it is possib | le to derive the fundamental laws of conservation of mass, momentum, angular momentum, and energy in integral and differential form these conservation laws are adapted to the case of viscous and inviscid fluid and linear and nonlinear elastic body. | i. in the last part o | i the course, |
| 01DYSY | Theory of Dynamic Systems | ZK | 3 |
| | es an introduction to system theory with emphasis on control theory and understanding of the fundamental concepts of systems and | | _ |
| • | ding of the dynamical behavior of systems as well as provide the necessary mathematical background. Internal and external system of | - | |
| • | state variable, impulse response and transfer function, polynomial matrix, and fractional representations. Stability, controllability, obser | • | |
| explained with the | emphasis always being on fundamental results. State feedback, state estimation, and eigenvalue assignment are discussed in detail. All | | |
| | | stabilizing feedbac | |
| are also paramet | erized using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both or | ŭ | k controllers |
| are also paramete | erized using polynomial and fractional system representations. The emphasis in this primer is on linear time-invariant systems, both confidence of the confi | ŭ | k controllers |
| 01FA1 | Functional Analysis 1 of mathematical analysis and algebra introduction to the basics of functional analysis. There are the concepts that students need to ur | ontinuous and dis | crete time. |
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| 01LAP | Linear Algebra Plus | Z,ZK | 5 |
|-----------------------|--|-----------------------|---------------|
| | The subject summarizes the most important notions and theorems related to the study of vector spaces. | | |
| 01LAZ | Linear Algebra 1, Examination The content of this subject is the exam in Linear Algebra 1. | ZK | 2 |
| 01LIP | Linear Programming | Z,ZK | 3 |
| | roblems about constrained extremum problems for multivariable functions (the function is linear and the constraint equations are given inequalities). | | s and linear |
| 01LNA1 | Linear Algebra 1 | Z | 2 |
| | The subject summarizes the most important notions and theorems related to the study of vector spaces. | _ | _ |
| 01MA1 | Calculus 1 Basic course of real analysis (functions of one real variable, differential calculus). | Z | 4 |
| 01MAA2 | Calculus A2 ubject is devoted mainly to the integral calculus of the real functions with one real variable and to the theory of the number series and | Z,ZK | 10 |
| 01MAA3 | Calculus A3 | Z,ZK | 10 |
| UTIVIAAS | Function sequences and series, foundation of topology, and differential calculus of several variables. | ۷,۷۲۲ | 10 |
| 01MAA4 | Calculus A4 Integration of functions of several variables, measure theory, foundation of differential and integral calculus on manifolds and comple | Z,ZK | 10 |
| 01MAB2 | Calculus B2 | Z,ZK | 7 |
| OTWINE | Basic calculus (real analysis, indefinite and definite integrals and series). | 2,21 | , |
| 01MAB3 | Calculus B3 | Z,ZK | 7 |
| | ted to functional sequences and series, theory of ordinary differential equations, theory of quadratic forms and surfaces, and general th and prehilbert?s spaces. | | = |
| 01MAB4 | Calculus B4 | Z,ZK | 7 |
| | evoted properties of functions of several variables, differential and integral calculus. Furthermore, the measure theory and theory of Li | | |
| 01MAN | Calculus 1 | Z | 4 |
| | Basic calculus (real analysis, functions of one real variable, differential calculus). | ' | |
| 01MANA | Calculus A 1, Examination Examination of knowledge about stuff lectured in the 01MAN course. | ZK | 6 |
| 01MANB | Calculus B 1, Examination | ZK | 4 |
| | Examination of knowledge about stuff lectured in the 01MAN course. | ' | |
| 01MAP | Calculus Plus | ZK | 6 |
| 01MAPR | Markov processes | Z,ZK | 4 |
| 01MASC | Mathematical Statistics - Seminar | Z | 2 |
| The subject is de | voted to practical use of statistical methods studied in the course Mathematical Statistics 01MAS. The tutorial deals with calculation o | f Fisher information | n matrix of |
| statistical models, t | finding unbiased estimators with minimal variance, parameter estimation by method of moments and method of maximum likelihood, or | derivation of critica | I regions for |
| | pothesis testing using the Neyman-Pearson lemma and likelihood ratio, calculation of confidence intervals and non-parametric densi | - | |
| 01MAZ | Calculus 1, Examination | ZK | 4 |
| 01MMF | Methods of Mathematical Physics | Z,ZK | 6 |
| | es an introduction to the theory of distributions with applications to solutions of partial differential equations with constant coefficients, for a continuous least the second and the s | | |
| are discussed for t | he case of a continuous kernel on a compact set as well as Sturm-Liouville operators on bounded intervals, and applications of the s to the solution of some boundary value problems and mixed problems. | eparation of variab | ies metriod |
| 01MMPV | Mathematical Models of Groundwater Flow | KZ | 2 |
| | ides an overview of computational methods for selected groundwater flow problems. The first part of the course is devoted to mathem | | |
| | problems. The second part is aimed at selected numerical methods, emphasizing implementation issues related to these meth | | |
| 01NME2 | Numerical Methods 2 | KZ | 2 |
| The course is devo | ted to numerical solution of boundary-value problems and intial-boundary-value problems for ordinary and partial differential equations. | It explains methods | s converting |
| bound | dary-value problems to initial-value problems and finite-difference methods for elliptic, parabolic and first-order hyperbolic partial difference methods for elliptic, parabolic and first-order hyperbolic partial difference | rential equations. | |
| 01NUM1 | Numerical Mathematics 1 | Z,ZK | 4 |
| The course introd | luces 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 |
| 04.05.01 | theoretical methods. | 7 | |
| 01PERI | Programming of Peripherals Devices rganization, input and output ports, computer bus. Software libraries for computer peripherals, 3D graphic libraries. Principles of perip | Z | 2 |
| 01POGR1 | Computer Graphics 1 | Z | 2 |
| | two-semester "Computer Graphics" course is devoted to the specifics of digital display devices spanning from history up to the state o | | |
| | ental problems in 2D computer graphics is given together with their solutions. Focus is put on mathematical description of problems and ex | | |
| algorithms using l | knowledge previously obtained in a variety of subjects available at FNSPE. The final part of the course covers the applications of comparison of the course covers the applications of the course covers the applications of comparison of the course covers the applications of the course covers the covers of the course covers the covers of the cov | puter graphics app | roaches in |
| | the process of authoring scientific documents and presentations. | | |
| 01POGR2 | Computer Graphics 2 | Z | 2 |
| · · | of the two-semester "Computer Graphics" course begins with a brief introduction to signal theory in the context of aliasing - a phenom | · · | - |
| | a well structured survey of fundamental problems in 3D computer graphics is given together with their solutions, from the description put on mathematical description of problems and explanation of the corresponding algorithms using knowledge previously obtained in | | |
| _ | orithm implementation aspect such as data structures design etc. is also a matter of concern. In the last lecture, a number of theoretic | | |
| | using Blender, an open-source 3D modeling and rendering software instrument. | | |
| 01POPJ1 | Computers and Natural Language 1 | Z | 2 |
| | omputational processing and understanding of natural languages. Automatic methods of morphological and syntactic analysis including | ng modern statistic | al methods |
| of result of | lisambiguation will be discussed. Two-level morphology, tagging and language models, Viterbi algorithm, grammars, chart parsing, pro | obabilistic gramma | rs. |
| 01POPJ2 | Computers and Natural Language 2 | Z | 2 |
| _ | urse is to get acquainted with the broad topic of machine translation (MT). Machine translation is a challenging task that can serve as | - | _ |
| of systems as co | omplex as natural languages. We cover several rather different approaches to the task as well as issues related to automatic and man | ual evaluation of tr | anslation |
| | quality. | | |

| | | | 1 _ |
|---|--|--|--|
| 01POPR | Advanced Probability evoted to advanced Theory of probability and statistics on measure-theoretic level for general distributions of random variables. We de | Z | 2 |
| • | f random variables and convergence criteria. Further, the theory of statistical model estimation and testing is extended for parametric | • | • |
| 01PRA1 | Probability and Mathematical Statistics 1 | Z,ZK | 6 |
| • | voted to the introduction to Theory of probability and statistics on measure-theoretic level for discrete models, continuous distributions | • | |
| random variables. | We deal with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This knowledge with sample an integral characteristics of random variables and variants of limit theorems are derived (LLN, CLT). This knowledge | ledge is further ap | oplied to the |
| 040040 | statistical processing of observations and statistical parametric model estimation. | 71/ | |
| 01PRA2 | Probability and Mathematical Statistics 2 | ZK | 2 |
| - | ted to the statistical techniques for estimation and testing within parametric and nonparametric models such as Maximum likelihood prin ess of fitness tests of models, confidence regions, etc. We focus on real practical applications of these statistical techniques in frame of | | - |
| 01PROP | Programmer's Practicum | Z | 2 |
| | s course is to acquire good programming habits which will help in writing of clean code, i.e. such that is easy to comprehend by other | _ | |
| | g specific examples, the students get familiar with naming conventions, and continue through writing project documentation, principle | | • |
| | debugging, up to creating object-oriented design, design patterns and refactoring. | | |
| 01PRST | Probability and Statistics | Z,ZK | 4 |
| | e of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and of | - | _ |
| | ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the | | and proved. |
| | e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testin | | 1 4 |
| 01PRSTB | Probability and Statistics B of probability theory and mathematical statistics. The probability theory is build gradually beginning with the classical definition and of | KZ | 4 Kolmogorov |
| | ons as random variable, distribution function of random variable and characteristics of random variable are treated and basic limit the | - | _ |
| | e basis of this theory the basic methods of mathematical statistics such as estimation of distribution parameters and hypothesis testing | | ana provoa. |
| 01PSL | LaTeX - Publication Instrument | Z | 2 |
| 0 0_ | The course is devoted to the basics and facilities of computer typography, particularly to the system LaTeX | _ | _ |
| 01PW | Windows Programming | Z | 2 |
| Simple | graphical programs for MS Windows. Basic editing controls. File input and output. User defined components, dynamic type identificat | ion and reflection | |
| 01RMF | The Equations of Mathematical Physics | Z,ZK | 6 |
| The subject of this | course is solving integral equations, theory of generalized functions, classification of partial differential equations, theory of integral tra | ansformations, ar | nd solution of |
| | partial differential equations (boundary value problem for eliptic PDE, mixed boundary problem for eliptic PDE). | | |
| 01RSWP | Project Management of Software Projects | KZ | 2 |
| | management of software projects is dedicated to an explanation of general ideas, rules and procedures which are common to many pro | = | |
| The course structur | e corresponds to a lifecycle of typical projects including many other aspects which have to be taken into account in the course of their m is paid to software project management and to IT projects in general. Interdisciplinary view of project management is emphasi. | | cific attention |
| 0.4.0 | | zeu. | |
| U1CITE1 | | 7 | 2 |
| 01SITE1 | Computer Networks 1 | Z rocols practical e | 2 xercises with |
| Understanding the | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network prot | ocols, practical e | xercises with |
| Understanding the TCP/IP communica | · · · · · · · · · · · · · · · · · · · | ocols, practical e prities, public key i | xercises with nfrastructure |
| Understanding the TCP/IP communica | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network prot tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification author | ocols, practical e prities, public key i | xercises with nfrastructure |
| Understanding the TCP/IP communica (PKI). Use in pra | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network prot tions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authoractice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the se | cocols, practical exprities, public key in the control lines, | xercises with nfrastructure modems) |
| Understanding the TCP/IP communica (PKI). Use in pra 01SITE2 Understanding the TCP/IP communica | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network profitions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authoractice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network protitions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authors. | ocols, practical exprities, public key in the price of th | xercises with nfrastructure modems) 2 xercises with nfrastructure |
| Understanding the TCP/IP communica (PKI). Use in pre 01SITE2 Understanding the TCP/IP communica (PKI). Use in pre | history and present network (LAN, WAN, use the principles and technologies). Architecture of reference model ISO/OSI. Network profitions. Internet services - mail, remote access, www. Secure communication, tunneling. Directory services, certificates, certification authoractice. Network security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. (According to the interest - the security - firewalls (packet filters, proxies, gateways, NAT, DMZ), practical exercises. | ocols, practical exprities, public key in trial control lines, Zocols, practical exprities, public key in trial control lines, | xercises with nfrastructure modems) 2 xercises with nfrastructure modems) |
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| 02BPEF1 | | | T _ |
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| The bachelor proje | Bachelor Thesis 1 It is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj | Z ject supervisor dur | ng common |
| | regular meetings and discussions. | | |
| 02BPEF2 | Bachelor Thesis 2 | Z | 10 |
| The bachelor proje | ct is based on a topic approved by the administrators of the programme, department and by the dean. The student is guided by the proj regular meetings and discussions. | ject supervisor dur | ng common |
| 02DEF1 | History of Physics 1 | Z | 2 |
| | ace in the system of sciences. The relationship of man and nature. Natural sciences in ancient Orientand Greece, Greek natural philo | _ | |
| | Archimed. Arabic science, European science in Middle Ages. Renaissance - da Vinci, Giordano Bruno. Copernicus, Kepler, Galileo, H | | |
| , | as experimental science. Newton and his work. | , g | , e, |
| 02DEF2 | History of Physics 2 | Z | 2 |
| | | _ | l |
| | f 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 p | hysics, Planck and Einstein. Discovery of radioaktivity, structure of atom, atomic nucleus, Rutherford and Bohr. The way to nuclear er | nergy, Elementary | particles, |
| | standard model. The concept of Nature and Universe of today. | | _ |
| 02DPD | Detectors and Principles of Particle Detection | ZK | 4 |
| The lectures intro | duce the main forms of interaction of some particles with matter. The goal is that the student gets an overview of what type of process | | nd in which |
| | situations they may be dominant. Some applications to Medicine and to study the fundamental structure of matter are presen | ited. | |
| 02DRG | Differential Equations, Symmetries and Groups | Z | 4 |
| | The purpose of the lecture is to teach students computation of symmetries of the differential equations. | • | |
| 02EJFS1 | Workshop on Experimental Nuclear Physics 1 | Z | 1 |
| | and 4-th course will present on this workshop status of their Bachelor and Research works. At the same time they will obtain an over | 1 | ific program |
| | of the department of physics in direction of experimental nuclear physics and related fields. | | o p. og. a |
| 0051144 | | 7.71/ | |
| 02ELMA | Electricity and Magnetism | Z,ZK | 6 |
| | oulomb's law, electrostatic field, Gauss' law. Electric dipole, polarization. Conductors and dielectrics. Electric current and circuits, cond | | ne relativity |
| _ | . Electrodynamic forces, magnetic field. Magnetic dipole, magnetics. Electromagnetic induction, ac currents. Electromagnetic waves, Magnetic dipole, magnetics. | /laxwell equations | |
| 02EXF1 | Experimental Physics 1 | Z | 2 |
| Lecture represents | an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method | ds of measuremen | t evaluation. |
| 02EXF2 | Experimental Physics 2 | ZK | 2 |
| Lecture represents | an introductory course in experimental physics. Students will learn methods of measurement of basic physical quantities and method | ds of measuremen | t evaluation. |
| 02FYS1 | Physical Seminar 1 | Z | 2 |
| | levoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical | _ | l |
| | nics. The problems are chosen, studied and presented by the students themselves, with the possibility to use PC and physical labora | - | course or |
| | | atory equipments. | |
| 02FYS2 | Physical Seminar 2 | <u>Z</u> | 2 |
| | evoted to detailed study of interesting physical problems. It should help students to deeper understanding of fundamentals of physical | • | |
| Electricity and | Magnetism. The problems are chosen studied and presented by the students themselves, with the possibility to use PC and physical | al laboratory equip | ments. |
| 02IJZ | Interaction of Ionisation Radiation | Z,ZK | 4 |
| The lecture is divide | ed to a description of the heavy and light charged particles passage through a matter, then the interaction of photons and neutrons as t | typical representar | ts of neutral |
| particles. The lect | ure is an introduction to the calculation exercise which is the carrying part of the subject. A student learns solution of typical problems | s and gets an expe | rience in a |
| | use and typical values of the variables defined in the practical and experimental nuclear physics. | | |
| 02KF | | | |
| | Quantum Physics | Z,ZK | 3 |
| State description | Quantum Physics , wave function, postulates of guantum mechanics, Born is statistical interpretation, expectation values. Schrödinger equation, Heise | Z,ZK | _ |
| State description | , wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise | | _ |
| | , wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. | enberg uncertainty | principle, |
| State description 02KVA2B | , wave function, postulates of quantum mechanics, Born s statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 | Z,ZK | _ |
| 02KVA2B | , wave function, postulates of quantum mechanics, Born's statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 Symmetry in quantum mechanics, invariance and conservation laws, approximate methods, scattering theory, systems of identical | Z,ZK | principle, |
| 02KVA2B 02KVAN | , wave function, postulates of quantum mechanics, Born's statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 Symmetry in quantum mechanics, invariance and conservation laws, approximate methods, scattering theory, systems of identical Quantum Mechanics | Z,ZK particles Z,ZK | principle, 6 |
| 02KVA2B 02KVAN | n, wave function, postulates of quantum mechanics, Born's statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 Symmetry in quantum mechanics, invariance and conservation laws, approximate methods, scattering theory, systems of identical Quantum Mechanics pes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as well as its | Z,ZK particles Z,ZK | principle, 6 |
| 02KVA2B 02KVAN The lecture descrit | , wave function, postulates of quantum mechanics, Born's statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 Symmetry in quantum mechanics, invariance and conservation laws, approximate methods, scattering theory, systems of identical Quantum Mechanics | Z,ZK particles Z,ZK time evolution. Be | principle, 6 |
| 02KVA2B 02KVAN | n, wave function, postulates of quantum mechanics, Born's statistical interpretation, expectation values, Schrödinger equation, Heise quantization of angular momentum, solution of simple systems, hydrogen atom. Quantum Mechanics 2 Symmetry in quantum mechanics, invariance and conservation laws, approximate methods, scattering theory, systems of identical Quantum Mechanics pes the birth of quantum mechanics and description of one particle and more particles by elements of the Hilbert space as well as its | Z,ZK particles Z,ZK | principle, 6 |
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| of the measureme | nt (acquire of different experimental procedures and routines), willteach writing the records of measurement, processing and evaluation | on of results. At the | e same time |
|--|--|--|--|
| 02RQGP1 | practically extendthe knowledge gained in lectures on physics. Seminar on Quark-Gluon Plasma 1 | Z | 1 |
| 02INQOI I | The aim of the seminar is discuss the selection of the most fundamental articles in heavy ion physics. | ~ | ' |
| 02RQGP2 | Seminar on Quark-Gluon Plasma 2 | Z | 1 |
| | The aim of the seminar is discuss the selection of the most fundamental articles in heavy ion physics. | | · |
| 02SF | Subatomic Physics | Z,ZK | 6 |
| _ | lectures is to present basic knowledge of particle physics. Students will become familiar with the structure of the matter, with elementa mos. Lectures will include basics of quantum mechanics and the theory of relativity needed for the description of elementary particles | = | |
| laws of fillerocos | become familiar with basic accelerating principles and with current particle physics experimental centers. | benavior. otagen | to will also |
| 02SF2 | Subatomic Physics 2 | Z,ZK | 6 |
| | urse is to teach students the basics of physics of atomic nucleus. Students will acquire knowledgeabout the basic properties of atomic | | |
| be measured. The | y will learn basic models, whichdescribe the structure of the atomic nucleus and nuclear reactions. Part of the lectures is also getting | familiar with theph | nysics of the |
| 02SMF | cosmic radiation and applications of nuclear physics. | 7 | 2 |
| | Seminar of Mathematical Physics he seminar is to iluminate mathematical physics by virtue of solved examples. It is supposed that the teachers of the physics departm | _ | I . |
| pa. pood or | concerning their scientific activities that could become the topics of the student?s bachelor theses in the next year | o | mpro taono |
| 02SPRA1 | Special Practicum 1 | KZ | 6 |
| Physics measuren | nent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen s | o that students ca | n familiarize |
| | with advanced pats of experimental physics and metrology. | | |
| 02SPRA2 | Special Practicum 2 | KZ | 6 |
| Physics measurem | nent focused on instrumental techniques that are mainly used in physics and technical professions. Topics of each parts are chosen s with advanced pats of experimental physics and metrology. | o mai students ca | n iamilianze |
| 02TEF1 | Theoretical Physics 1 | Z.ZK | 4 |
| | troduction to analytical mechanics. The students acquire knowledge of the basic concepts of the Lagrange and Hamiltonian formalism | , | 1 |
| • | dynamics (Newton's, Lagrange, Hamilton and Hamilton-Jacobi equations). The efficiency of these methods is illustrated on elementary | • | • |
| problem, the moti | on 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 | e subject is |
| 007550 | the first part of the course of classicaltheoretical physics (02TEF1, 02TEF2). | 7 71/ | 1 |
| 02TEF2 Tensors and tran | Theoretical Physics 2 Instrumentions in physics. Mechanics of point mass, rigid body and continuum. The special theory of relativity: relativistic mechanics and | Z,ZK I classical field the | 4 Porv in the |
| | ime. Classical electrodynamics: Maxwell's equations in the Minkowski space-time, electromagnetic waves in dielectric media, electrom | | - |
| • | approximation. | | · |
| 02TER | Heat and Molecular Physics | Z,ZK | 4 |
| | n of materials, heat transfer; stationary and non-stationary heat conduction, heat transfer and penetration; 1st and 2nd thermodynamic | | _ |
| entropy; non-chem | ical systems: dielectric and magnetic materials; Maxwell relations and thermodynamic potentials; kinetic theory: Maxwell's velocity dist | ribution.eguipartiti | on theorem |
| 007054 | T | | |
| 02TSFA | Thermodynamics and Statistical Physics | Z,ZK | 4 |
| Foundation of therr | nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chateli | Z,ZK er principle. Statis | 4 tical entropy. |
| Foundation of therr | | Z,ZK er principle. Statis | 4 tical entropy. |
| Foundation of therr Basics of many bo | nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelidy descriptionfrom a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. Introduction to Elementary Particle Physics | Z,ZK er principle. Statisi ensemble, Fermi | 4 tical entropy. gas, models |
| Foundation of therr Basics of many bo 02UFEC The cour | nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelidy description a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. Introduction to Elementary Particle Physics se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su | Z,ZK er principle. Statisi ensemble, Fermi Z bject are presente | 4 tical entropy. gas, models 2 ed. |
| Foundation of therr Basics of many bo 02UFEC The cour 02UKP | nodynamics and statistical physics. Thermodynamic potential, the Joule Thomson effect, conditions of equilibrium, the Braun-Le Chatelidy description a statistical point of view (classical and quasiclassical regime within the frame of a canonical and grand-canonical of crystals and the black body radiation). The Boltzmann equation is used to discusses simple transport phenomena. Introduction to Elementary Particle Physics se provides an easily accessible introduction to elementary particle physics. Development, methods, goals and perspectives of the su Introduction to Curves and Surfaces | Z,ZK er principle. Statist ensemble, Fermi Z bject are presente | 4 tical entropy. gas, models 2 ed. 2 |
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| O4AKS English Conversation The course will develop the student's communication skills acquired throughout their previous studies. It aims to improve all aspects of their vocabulary for various communication situations and will master their communication strategy. They will also practise their listening in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become of the course is designed for students who have successfully completed the full secondary school English language course at least at the | |
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| their vocabulary for various communication situations and will master their communication strategy. They will also practise their listening in discussions. The student will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage, and become of the students will be trained to express their ideas clearly and according to current English usage. | Z11 |
| in discussions. The student will be trained to express their ideas clearly and according to current English usage, and becoden to the course is designed for students who have successfully completed the full secondary school English language course at least at the | · · |
| 04AM1 English for Intermediate Students M1 The course is designed for students who have successfully completed the full secondary school English language course at least at the | - |
| The course is designed for students who have successfully completed the full secondary school English language course at least at the | 7 1 |
| | |
| of Reference for Languages (CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., into | |
| professional oral and written communication situations. Thus it covers topics related to the student's life and needs as well as topics of | f subtechnical interest. Attention is also paid to |
| extending the knowledge of grammar issues used in EAP. | |
| 04AM2 English for Intermediate Students M2 | Z 1 |
| The 04AM2 course expects the student to have completed the 04AM1 course. It develops their skills for work with subtechnical texts, foc | |
| and lexical items typical of ESP and EAP (e.g., definition, existence and classification of phenomena, object descriptions). Part of the cour revision is included. | rse is also guided writing. If necessary, grammar |
| | Z 1 |
| 04AM3 English for Intermediate Students M3 The course develops the skills that enable students to cope with features typical of professional style. Increasing attention is paid to develop | |
| understanding of professional texts. Great emphasis is placed on distinguishing different levels of formal and informal oral and writter | |
| equivalents. The course also includes studying abstracts and rules for writing them as well as basic rules for preparing and giving a sho | |
| student's field. | |
| 04AMZK English for Intermediate Students Examination | ZK 4 |
| The course content is the examination as given by the study plan. The examination covers the 04AM1, 04AM2, and 04AM3 courses are | |
| oral (20-30 min). The student is expected to master the AM syllabus and demonstrate the ability to apply their knowledge g | |
| 04AP1 English for Advanced Students P1 | Z 1 |
| The course is designed for students who have successfully completed the full secondary school English language course (at least the | |
| of Reference for Languages - CEFR). It provides an introduction into English for Specific and Academic Purposes (ESP, EAP), i.e., in grammar, and style typical of professional oral and written communication situations (fundamentals of terms in mathematics and phys | · · |
| covers professional oral and written communication on topics related to the undergraduate's life and needs. It develops skills for free profe | , , , , |
| polite request). If necessary, revision of selected grammar topics is included. | colonial wilding (wilding a 6 v, lotter of application, |
| 04AP2 English for Advanced Students P2 | Z 1 |
| The 04AP2 course is based on 04AP1, thus extending the student's skills for working with subtechnical texts, and even with professional | texts of chosen branches of science. According |
| to the students' needs it concentrates on chosen grammar topics, but mainly intends to develop understanding of syntactic structures | s and typical rhetorical functions (e.g., various |
| types of descriptions, and, if possible, a case study). Increasing emphasis is placed on the undergraduate's independent work with a | |
| materials. The course extends the student's subtechnical vocabulary, and includes fundamental notions of chosen branches of science | ce. It is focused on formal writing including the |
| sentence and paragraph structure, linking, cohesion and coherence in texts. | |
| 04AP3 English for Advanced Students P3 | Z 1 |
| The 04AP3 course is based on 04AP2 and expects the student to work without any guidance with authentic professional materials and written communication skills and functions (e.g., expressing an opinion, agreement, and objections; taking part in discussion, note-tal | |
| possible, also preparing a project on a given or chosen topic and presenting it. The course places emphasis on distinguishing levels of | |
| written communication. | Toma and information gaage 2011 in ordi and |
| 04APZK English for Advanced Students Examination | ZK 5 |
| The course content is the examination as given by the study plan. The student is supposed to demonstrate mastering the 04AP3 syll | labus and the ability to apply their knowledge |
| obtained in the three 04AP courses. The examination consists of 2 parts - written (110 min) and oral (30 min) and includes also oral properties of the courses. | resentation of a topic from the student's field of |
| study. | |
| 04CESM1 Czech for foreigners - Intermediate | Z 1 |
| | |
| | n extending the student's vocabulary for various |
| social situations. | |
| social situations. 04CESM2 Intermediate Czech 2 | Z 1 |
| social situations. 04CESM2 Intermediate Czech 2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, spe | Z 1 aking, and reading skills and trains the student |
| social situations. 04CESM2 Intermediate Czech 2 The course develops the topics covered in CESM1 and is then focused on more difficult grammar phenomena. It practices writing, spe in understanding common abbreviations, abbreviated words, and mathematical terms and form | Z 1 aking, and reading skills and trains the student mulas. |
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| skills gained in previous study. The following topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal statement, request, answer to an advert, French culture and geography, Paris. Topics of specialization: mathematics, physics. Reading technical and popular science texts, work based on these texts. | |
|--|---------------------------------------|
| 04FM2 French for Intermediate Students M2 Z 1 | 1 |
| Course FM2 builds on FM1. Linguistic structures and competence acquired in previous study are systemized and expanded. Reading popular science texts, features typical for technical | 1 |
| and scientific language (passives, nominalization, word formation). Topics: physics, power engineering, environment, Internet, success of French science and technology, French scientists, artists and architects. Description of an object, device, shapes, dimensions, material. | |
| 04FM3 French for Intermediate Students M3 Z 1 | 1 |
| The course is focused on improvement and further development of linguistic competence acquired during the follow-up courses. Syntactic structures (subordinate and infinitive clauses | , |
| participle structures, compound tenses). Text summaryStudents prepare a written paper which will be delivered in form of an oral presentation in-class. The paper is linked to the | |
| field of students' future specialisation or to their interest and generally covers a technical /applied science topic. It is not a translation but a creative work compiled from French articles and one's own knowledge/experienceLonger monologues on topics /situations set for the examination are prepared. Text structure, cohesion and coherence. | • |
| 04FMZK French for Intermediate Students Examination ZK 4 | 1 |
| The content is the examination as given by the study programme. The whole French programme is ended with an examination covering the contents of FM1-FM3. The examination | |
| consists of a written and oral part and is organized according to Examination Instructions, a document available on the web. | |
| 04FP1 French for Advanced Students P1 Z 1 | |
| 04FP advanced course The objective of this three-semester course is to improve and further develop communication in the French language in both written and oral form. Students will be able to communicate in social interaction and in academic, scientific and work environment. They will be able to use the language to transmit general and technical information | |
| and to solve problems. 04FP1 The course builds on and further develops linguistic competence acquired at secondary school. Difficult grammar topics are repeated and expanded: | |
| subjonctif, passé composé-imparfait, pronouns. The following specific topics are covered: University studies in our country and in France, writing of transactional letters, CV, personal | |
| statement, request, answer to an advert, environmental issues, success of French science and technology, chosen topics from French regional culture, Paris. Topics of specialization: | |
| mathematics, internet, physics, chemistry. Reading of technical and popular science texts, further work with these texts and interpretation. | 4 |
| 04FP2 French for Advanced Students P2 Z 1 With the link to P1 contents, the course further develops language skills. Focus is put on reading popular science texts and on oral communication on given topics. Features typical of | |
| technical and scientific communication are stressed (passive voice, nominalization, word formation). | |
| 04FP3 French for Advanded Students P3 Z 1 | 1 |
| The course is focused on systemization and improvement of acquired linguistic competence, skills and knowledge, and their use for communication in engineering environment. Specia | ı |
| skill - translation of shorter texts (both from and into the language). Writing of a paper and making oral presentation in-class. The paper generally covers a technical /applied science | |
| topic. It is a creative work compiled from 3 French sources. Preparation of several set topics for oral examination. O4FPZK French for Intermediate Students Examination ZK 5 | 4 |
| The whole French program is ended with an examination covering the contents of FP1-FP3. The examination consists of a written and/or an oral part and is organized according to | |
| Examination Instructions, a document available on the web. Assessment of the presentation is included into the examination grading. | |
| 04FZ1 French for Beginners Z1 Z 1 | ٦ |
| French for beginners The objective of this 5-level course is to be able to communicate in French orally and in writing in situations of everyday life, in socializing and in professional life | - 1 |
| The course includes French for specific / technical communication and reading of popular science and scientific texts. 04FZ1 The objective is to be able to communicate at elementary level, actively using the knowledge of chosen elementary language. The contents is roughly outlined by lessons 1 - 7 of the textbook Pravda - Pravdová, French for beginners | |
| (Francouzština pro za áte ky). It is extended with situations of communication and functions from the textbook Espaces I, lessons 1-4: introductions, personal information, asking and | , |
| giving the directions, simple instructions and questions. Special attention is paid to pronunciation. Spelling is explained in connection with pronunciation and grammar. | |
| 04FZ2 French for Beginners Z2 Z 1 | ٦ |
| The course is linking up with 04FZ1. Elementary linguistic knowledge and communication skills are expanded. The scope is given by lessons 8 - 13 of the textbook: Pravda - Pravdová | |
| | ١ |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, | |
| | |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered How does the machine work? A few expressions concerning the study. Name of University and Faculty. | |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered How does the machine work? A few expressions concerning the study. Name of University and Faculty. O4FZ3 French for Beginners Z3 Z 1 The course builts upon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravdová: French for Beginners | : |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered How does the machine work? A few expressions concerning the study. Name of University and Faculty. O4FZ3 French for Beginners Z3 The course builts upon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravdová: French for Beginners Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for information and loud as part of | : |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered How does the machine work? A few expressions concerning the study. Name of University and Faculty. O4FZ3 French for Beginners Z3 The course builts upon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravdová: French for Beginners Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for information and loud as part of pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. | : |
| : French for Beginners . Additional topics and skills are filled in from the textbook Espaces I, lesson 1 - 5 (introductions, invitation, welcoming, agreement - disagreement, apology, thanking, travelling, map of France, food, expression of will, wish, order, prohibition, pleasure). Correct pronunciation is practiced. Stress on oral communication. Specific topics covered How does the machine work? A few expressions concerning the study. Name of University and Faculty. O4FZ3 French for Beginners Z3 The course builts upon 04FZ2. Basic linguistic knowledge and skills are developed. The contents is given by lessons 14 - 18 of the textbook: Pravda - Pravdová: French for Beginners Topics, functions and situations are complemented from other materials. Stress is put on oral communication in dialogues and on reading, both for information and loud as part of pronunciation practice. Reading covers short adapted texts of general interest first, and later popular science texts. O4FZ4 French for Beginners Z4 Z 1 | |
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practise reading for information and reading aloud, and appropriate language for various purposes in oral and written communication. The course systematically revises other grammatical phenomena important for professional discourse (participles, relative clauses). 04NMZK German for Intermediate Students Examination 7K 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 consisting of two parts - written and oral, which cover the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NM3 assessment. More detailed information is to be obtained from the teacher. 04NP1 German for Advanced Students P1 This course requires good grammar knowledge, extended general vocabulary, and good communication skills acquired at secondary school to be levelled off at the beginning of the course. The course is then focused on working with technical and scientific texts and practising reading techniques (skimming, scanning, reading for detail). It revises and develops more difficult grammar structures necessary for understanding a subtechnical text (passive voice, participles, participle structures) and it also focuses on practical everyday communication, i.e., telephoning. 04NP2 German for Advanced Students P2 7 The course develops the students' skills in working with professional scientific texts (understanding, summarising, note-taking, interpreting) while extending their general and subtechnical vocabulary range. It introduces mathematical expressions and texts of nuclear power engineering. Increasing emphasis is placed on understanding and practising formal communication, both written and oral (CV, letter of application, interview, scholarship), and more complex grammatical structures (i.e., subjunctive, indirect speech). 04NP3 German for Advanced Students P3 The course consists of 3 main parts (general communicative situations, grammar and technical topics). Students will develop their vocabulary in a variety of less common situations (traffic problems and car accidents, accident report, filling in a form, complaints). Based on presentations and technical and subtechnical texts, the vocabulary range in fields such as nuclear power engineering, the environment, computer science, and car technology, will also be extended. Only authentic professional texts are used. By means of a presentation, 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 course also includes translation practice to and from German. 04NPZK German for Advanced Students Examination 5 The course content is the examination as given by the study plan. The whole German for Advanced Students Course is completed by an examination consisting of two parts - written and oral, which cover the courses 04NM1 - 04NM3. The oral part follows after passing the written part successfully and after obtaining the 04NP3 ungraded assessment. More detailed information is to be obtained from the teacher. Russian for Intermediate Students M1 04RM1 The course is designed for students with previous knowledge of Russian from secondary schools. Students are supposed to know the Russian alphabet (both printed and handwritten). basic vocabulary for communication in everyday situations (introductions, socializing, greetings, shopping for food and objects of everyday need, asking the way and giving directions), they can use basic grammar structures (verbal and nominal forms, irregular verbs, pronouns). The initial knowledge corresponds to the achievement level of the RZ2 course. The contents and scope of the course correspond approximately to the RZ3 course, but for half of the time allotted in the timetable. 04RM2 Russian for Intermediate Students M2 7 1 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 timetable 04RM3 Russian for Intermediate Students M3 Z 1 The course develops the knowledge and skills acquired in RM1 and RM2 and its contents and scope are roughly at the same level as those of RZ5, however, for half of the time allotted in the timetable 04RMZK Russian for Intermediate Students Examination The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills 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 instructions by the teacher. 04RP1 Russian for Advanced Students P1 The entrance requirement for the course is to achieve the B1 CEFR level. The objective of the course is revision of standard language structures, practicing more difficult grammar structures, understanding the fundamentals of technical language and training writing skills. Russian for Advanced Students P2 The course is based on RP1. It expands grammatical structures important for understanding technical texts (verbal adjectives, participles, passives, verb aspects, specific syntactic structures). Stress is put on independent oral and written communication. 04RP3 Russian for Advanced Students P3 7 The course is based on RP2 and is mainly focused on working with technical and scientific texts (reading comprehension, oral and written paraphrasing, translation). The RP1 - RP3 courses require good previous knowledge of general language at secondary level (listening, reading, correct communication in everyday situations). The courses develop and expand these skills. Further study is aimed at professional and technical skills (reading technical literature according to the students' specialization, oral and written interpretation). Students develop their subtechnical vocabulary and practice quick and correct communication in professional situations. They will be able to both speak write accurately and with confidence on technical topics. 04RP7K Russian for Intermediate Students Examination 7K 5 The course content is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowledge and skills acquired in RP1 - RP3. Students are eligible for the oral examination only after a prior pass in RP3 and a successful written examination. Students are given instructions by the teacher Russian for Beginners Z1 The course represents the first stage of the five-semester programme, its final aim being reading and understanding professional texts written in Russian. Thus it begins with mastering the Russian alphabet (for both reading and writing skills) and fundamentals of grammar necessary for everyday communication (listening and speaking). Students will be able to read a short text with marked stress, understand its contents and summarize it. 04RZ2 Russian for Beginners Z2 The second semester of the programme is designed to teach skills for basic communication in everyday situations and for reading easy and short subtechnical texts. Students will be able to communicate using short sentences and appropriate structures, and read aloud with confidence a short text without marked stress. They will also develop their vocabulary and master further grammatical structures. They will have mastered with confidence the Russian alphabet and will be able to use it in writing. 04RZ3 Russian for Beginners Z3 The course is based on RZ2 and includes further everyday topics, develops understanding of short compact texts on new subtechnical topics (for training various forms of reading skills and listening) and introduces new grammar. Students will be trained to distinguish intonation patterns while listening to spoken language. They will be able to respond so as to be understood, and to express their opinion. Writing skills will be trained on guided writing tasks and note-taking. 04RZ4 Russian for Beginners Z4 Ζ The course is based on 04RZ3. It improves and expands the knowledge of general language in all four skills (reading and understanding longer texts with a certain percentage of unfamiliar words, oral communication in everyday situations, writing longer texts). Students are trained to use grammar structures effectively (e.g., irregular verbs, differences in verb patterns from Czech, modality, imperatives, conditionals). They practice and develop communication skills for everyday situations (food, travelling, free time), and practice oral and written communication on more specific topics (environment, addictions, the green movement). They become acquainted with various geographical data (e.g., Siberia), learn how to fill in forms, look up the information from the timetable, learn about Russian holidays and typical meals.

| 04RZ5 | Russian for Beginners Z5 | Z | 1 |
|--|--|--|--|
| The course expects | s the student to have completed RZ4. It concentrates predominantly on reading skills (working with professional texts, i.e. understandin | ng, extracting and so | ummarizing |
| information from a | specialized text) and speaking, and to a certain extent, writing about the professional information obtained by reading the texts. Comr | nunication skills are | e trained on |
| everyday topics. S | studying grammar is based on professional and technical texts and only includes items typically used in professional communication (| (verbal adjectives, p | articiples, |
| passiv | re voice). Students develop their technical and economic vocabulary, and are also trained in some professional skills (writing a CV, po | olite request, etc.) | |
| 04RZZK | Russian for Beginners Examination | ZK | 3 |
| | | | _ |
| | at is the examination as given by the study plan. The course is completed by taking a written and oral examination testing the knowled | | |
| | ents are eligible for the oral examination only after a prior pass in RZ5 and a successful written examination. Students are given instr | uctions by the teac | her. |
| 04SM1 | Spanish for Intermediate Students M1 | Z | 1 |
| The course is des | igned for students whose competence is at level B1 of CEFR, i.e. those who studied Spanish in the secondary school. The 3-semest | ter course develops | standard |
| | ays attention to further grammar topics (e.g., perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negativ | | |
| , , |), to written and oral communication on a given everyday or easy subtechnical topic, for which the students are trained by reading tex | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| 04SM2 | Spanish for Intermediate Students M3 | Z | 1 |
| The course develo | ops the students' knowledge from the previous course (SM1). Students are gradually acquainted with fundamentals of Spanish for sp | ecific purposes in o | order to be |
| | able to work with specialized texts on the Internet. | | |
| 04SM3 | Spanish for Intermediate Students M3 | Z | 1 |
| | are supplemented with additional subtechnical materials, so the students will be gradually acquainted with the peculiarities of academi | ic style. They will be | competent |
| | Internet in Spanish and search for information of their specialization or field of interest. Students will use the information to write short | | |
| enough to use the | · | | nanes. The |
| | final part of the programme, general Spanish course based on course books, covers presentations and, finally, a written and oral ex | | |
| 04SMZK | Spanish for Intermediate Students Examination | ZK | 4 |
| The course conte | nt is the examination as given by the study plan. 04SMZK examination consists of two parts - written and oral; to be eligible for the w | ritten part, students | will have |
| | obtained non-graded assessment for course 04SM3.Oral examination follows the written part. | | |
| 04SP1 | Spanish for Advanced Students P1 | Z | 1 |
| | | _ | |
| Course concentrate | es on more difficult grammar topics, revision of vocabulary, basics of Spanish for specific purposes as well as written communication. | Course prerequisit | es. ievei BZ |
| | of CEFR. | | |
| 04SP2 | Spanish for Advanced Students P2 | Z | 1 |
| Course SP2 is the | second part of the advanced Spanish course, extending Spanish for specific purposes topics. It comprises more grammar and synta | x and focuses on in | dependent |
| | written communication. | | . |
| 0.4000 | | 7 | |
| 04SP3 | Spanish for Advanced Students P3 | Z | 1 |
| Course 04SP3 is th | 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 | used on written com | munication |
| | based on what students will need in their career. | | |
| 04SPZK | Spanish for Advanced Students Examination | ZK | 5 |
| | nt is the examination as given by the study plan. Examination 04SPZK consists of two parts, namely oral and written. The prerequisit | | _ |
| | aving passed the written test. Examination content is based on syllabi of courses SP1, SP2, and SP3 or on an individual study plan o | | oral part lo |
| | | | |
| 04SZ1 | Spanish for Beginners Z1 | Z | 1 |
| Course 04SZ1 is the | e first stage of the five-semester programme of Spanish studies; during the first stage the students will master phonetics and fundan | nental grammar stru | uctures and |
| will be able t | o communicate at an elementary level on topics of everyday life. They will acquire and extend fundamental vocabulary of general Spa | anish and will devel | op it. |
| 04SZ2 | Spanish for Beginners Students Z2 | 7 | 1 |
| | based on course 04SZ1, and expects students to develop and extend the knowledge and skills acquired so far. Grammar structures a | nd levis will be cho | - 1 |
| | | | |
| to enable them to t | inderstand short adapted written texts and speech. Attention is also paid to cultural differences between Spanish-speaking countries | and others such as | s the Czech |
| | Republic. Realia of Spanish-speaking countries are also included. | | |
| 04SZ3 | Spanish for Beginners Z3 | Z | 1 |
| The course is base | d on course SZ2, and develops the student's vocabulary and grammar structure. The course covers realia (history and culture) of the | e Spanish-speaking | g countries, |
| mainly of Spain. | It pays attention to further grammar topics (pretérito perfecto, pretérito indefinido, pretérito imperfecto, the gerund and the imperative |). It includes written | and oral |
| , | communication on a given general topic, for which the student is trained by reading texts or listening to them. | , | |
| 04074 | | 7 | |
| 04SZ4 | Spanish for Beginners Z3 | Z | 1 |
| The course is bas | ed on course SZ3. It develops the student's vocabulary and extends the knowledge of the culture and social customs of the Spanish | speaking countries | , mainly of |
| Spain. It pays atte | ntion to further grammar topics (perifrasis verbales, futuro imperfecto, direct object and indirect object pronouns, negative form of the | imperative, and su | bjunctive), |
| | to written and oral communication on a given general or subtechnical topic, for which the student is trained by reading texts or listenii | | |
| | to written and oral communication on a given general or subteen mean topic, for which the student is trained by reading texts or listen. | ng to them. | 1 |
| 04SZ5 | | | 1 |
| 04SZ5 | Spanish for Beginners Z5 | Z | 1 |
| | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for | Z or specific purposes | |
| The course books | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina | Z or specific purposes ation. | . In its final |
| The course books 04SZZK | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination | Z or specific purposes ation. | i. In its final |
| The course books 04SZZK | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examina | Z or specific purposes ation. | i. In its final |
| The course books 04SZZK | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination | Z or specific purposes ation. | i. In its final |
| The course books 04SZZK The course conte | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expansed the written examination test. | Z or specific purposes ation. ZK camination only if he | 3 e/she has |
| The course books 04SZZK The course conte | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test. Linear Circuit Analysis | Z or specific purposes ation. ZK camination only if he | 3 e/she has |
| The course books 04SZZK The course conte | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test. Linear Circuit Analysis introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially | Z or specific purposes ation. ZK camination only if he | 3 e/she has |
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| The course books 04SZZK The course conte 11ANEL The course is the 11APLG Consideration of a and transitions be | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test. Linear Circuit Analysis introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipm Applications of Group Theory in Solid State Physics atomic system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the tween them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information. The application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environment vibrations, and selection rules for optical absorption transitions. Instrumentation and Measurement | Z or specific purposes ation. ZK camination only if he camination only if he camination only if he camination only if he camination on the object that | 3 e/she has 4 erstanding 2 eteractions symmetry |
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| The course books 04SZZK The course content 11ANEL The course is the 11APLG Consideration of a and transitions be alone will provide. 11ELEA 11MIK | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination Spanish for Beginners Examination ent is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test. Linear Circuit Analysis introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipmation and precisely determine how many energy states the tween them may occur. Therefore, the main purpose of this course is to describe the methods by which we can extract the information the application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environmentations, and selection rules for optical absorption transitions. Instrumentation and Measurement The course is the introduction to the instrumentation and measurement for physicists. Logical Circuits and Microprocessors introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuits and measurement for physicists. | Z or specific purposes ation. ZK camination only if he camination on the undiment. ZK ere are and what in n on the object that nt, normal modes of the camination of the camin | 3 e/she has 4 erstanding 2 eteractions symmetry of molecular 2 4 |
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| The course books 04SZZK The course content 11ANEL The course is the 11APLG Consideration of a and transitions be alone will provide. 11ELEA 11MIK The course is the | Spanish for Beginners Z5 are supplemented with additional subtechnical materials, so the students will be gradually acquainted with peculiarities of Spanish for part, the general Spanish course based on the course book will end with presentations and, finally, a written and oral examination and is spanish for Beginners Examination and is the examination as given by the study plan. Examination consists of two parts - written and oral. Student can register for oral expassed the written examination test. Linear Circuit Analysis introduction to the linear electronics for physicists. In the first part it describes basic methods of linear circuit analysis. It is especially of the computer methods of analysis. The second part gives a short list of most commonly used circuits in experimental equipmation and precisely determine how many energy states the state of the system symmetry allows, without any quantitative calculations, rigorously and precisely determine how many energy states the state of the methods by which we can extract the information. The application of these methods is illustrated by an example of molecular orbitals, inner orbitals of ions in the crystal field environmentations, and selection rules for optical absorption transitions. Instrumentation and Measurement The course is the introduction to the instrumentation and measurement for physicists. Logical Circuits and Microprocessors introduction to the digital electronics for physicists. It describes the function principles of combination circuits, simple sequential circuit microprocessors. The microcomputer architecture and principles of interfacing is shown. | Z or specific purposes ation. ZK camination only if he camination on the undiment. ZK ere are and what in n on the object that nt, normal modes of the camination of the camin | 3 e/she has 4 erstanding 2 eteractions symmetry of molecular 2 4 rcuits like 3 |

| 11UFPLN | Introduction to Solid State Physics | ZK | 2 |
|-----------------------|---|-----------------------|--------------|
| | The purpose of this lecture is to introduce the undergraduate students to the study of the solid state physics. | | |
| 11UVOD | Introduction to Specialization The purpose of this lecture is to introduce the undergraduate students to the physical master degree study programmes. | Z | 2 |
| 11ZFPL | Basic to Solid State Physics | KZ | 2 |
| | amental properties of solids following the regular long distance ordering of atoms in a crystal lattice. Based on the introduced bonding | | |
| | s of crystals and their properties are defined. The model of crystalline lattice dynamics in harmonic approximation is described and basic | | |
| 1 | periodic potential of the crystal lattice is introduced and its relation to the following model describing the energetic state of electrons in | = | |
| energy bands ex | xplained. The special consequences of band approach to the physical properties of solids are elucidated. The aim of the course is to s | systematically intro | duce and |
| 1015 | interpret a broad phenomenological basis of physical properties of crystalline solids | 7.71 | |
| 12APL Ap | Application of Lasers pplication of lasers in industrial technologies, medicine, remote sensing, energetics, telecommunication, military, entertainment and ot | Z,ZK her branches. | 2 |
| 12AUX | Administration of UNIX System Basic and more advanced administration of Unix operating system | KZ | 2 |
| 12EGS1 | English Graduate Standard 1 | KZ | 4 |
| | knowledge in English, English Presentation, English Discussions, creation of the technical text, structures of important documents, Pr | | |
| 12EPR1 | Basic Electronics Practicum 1 | KZ | 3 |
| | acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation | · | |
| | consists of blocks lasting 4 hours. | | |
| 12EPR2 | Basic Electronics Practicum 2 | KZ | 3 |
| | acticum is 1) to acquire basics skills in electronics and 2) to learn independent problem solving, formulation of a task and formulation | | - |
| | consists of blocks lasting 4 hours. | | |
| 12INS1 | Information Systems 1 | Z,ZK | 2 |
| | logy, architecture of the databases, network databases, cloud application Google, Microsoft, information managament, aproaches to so | | |
| 12INS2 | Information Systems 2 | Z,ZK | 2 |
| _ | information systems 1 is required. In more details: Information technology, architecture of the databases, network databases, cloud ap | | |
| Gradation of it | information managament, aproaches to solve task of information systems | pilodilori Googlo, il | morocort, |
| 12LAS | Laser Systems | Z,ZK | 3 |
| | e nanosecond lasers. Picosecond lasers. High energy laser systems. Laser fusion. Diode-pumped solid state lasers. Tunable lasers. C | | _ |
| | Semiconductor lasers for pumping of solid state lasers and diode pumped solid state lasers Amplified spontaneous emission. Ultravi | | |
| | power continuous lasers. Infrared high power lasers. Submilimeter lasers. Lasers with high degree of coherence. Free electron I | | |
| 12LT1 | Laser Technique 1 | Z,ZK | 3 |
| | Tabel Teermique T Stability. Transverse and Longitudinal Modes. Elements of Open Resonators. Threshold of laser oscillations. Gausian beam as an app | | |
| | ethod. Optical radiation propagation in resonant medium. Two-level approximation. Equations for polarisation and inversion, dispersion | | |
| | non-coherent pulse propagation. Optical solitons. Photon echo. Superradiation. Amplified spontaneous emission Lasers without optical | | |
| 12LT2 | Laser Technique 2 | Z,ZK | 2 |
| | Laser oscillator, the rate equation, the laser amplifier, Q-switching, mode-locking | , | |
| 12MOF | Molecular Physics | ZK | 2 |
| | ideas on multi-atomic molecules and molecular matter, and on structure-to-physical properties relations. Methods of molecular structu | | |
| 12MPR1 | Microprocessors 1 | ZK | 4 |
| | nd microcomputer, microprocessor types, memory types CPU, memory, Input output. Code and data, addressing modes(direct, indir | | e,, stack |
| memory, procedure | e calls, IO devices - program control, interrupt. Microprocessor Microchip PIC16F877A, Instruction codes- Assembler and Macroassem | nbler, programming | languages. |
| | RISC processors - principles | | |
| 12MPR2 | Microprocessors 2 | ZK | 2 |
| | chitecture IA-32. Data types and addressing. Memory segmentation and paging. Real and privileged mode. Instruction set, Assemble | r. description. | |
| 12NME1 | Numerical Methods 1 | Z,ZK | 4 |
| | l d the basic principles of numerical mathematics important for numerical solving of problems important for physics and technology. Me | | f tasks very |
| important for phys | icists (ordinary differential equations, random numbers) are included in addition to the basic numerical methods. Integrated computat | ional environment | MATLAB is |
| | used as a principle programming language as a demonstration tool. The seminars are held in computer laboratory. | | |
| 12NT | Nanotechnology | ZK | 2 |
| Lectures will introd | uce students mainly to modern technological methods of preparation of semiconductor, metal and dielectric nanostructures. Physica | l and chemical fun | daments of |
| different technolo | ogies (MBE, MOVPE, EBL, sol-gel and colloidal solution) will be explained. Substantive attention will be devoted to epitaxial technolog | jies which are subs | stantial for |
| nanostructure pre | paration. Particular emphasis will be focused on detail characterization of "in situ" and "ex situ" techniques, their applications for hetei | rostructure and nai | nostructure |
| growths will be dis- | cussed as well. Some supportive technical methods - lithography, diffusion, evaporation, ion implantation, contact and dielectric layer | preparation will be | mentioned |
| | as well as soldering and encasement. | | |
| 12PDR1 | Data Communication and Interfaces 1 | Z | 2 |
| | Principles of computer networks, networks architectures and data transfer. Specification of existing network architectures. | | |
| 12PDR2 | Data Communication and Interfaces 2 | Z | 2 |
| | Principles of Ethernet standards and basics of protocol suite TCP/IP. | | |
| 12PEL1 | Practical Electronics 1 | Z,ZK | 2 |
| Recapitulation of | basics electronic, mathematical analyses of circuit solving. Measurement in electronic, measurement of frequency and phase. Analo | gue to digital conve | erters and |
| | digital signal processing. Function of voltmeter, ampermeter, oscilloscope, spectral analyser and logical analyser. | | |
| 12PEL2 | Practical Electronics 2 | Z,ZK | 2 |
| | Noise analyses in electronics, low noise electronics system design. Noise measurement. Time measurement. Printed circuit de | | |
| 12PIN1 | Practical Informatics for Technics 1 | Z | 2 |
| | operating systems. Personal computer, workstation and supercomputers. Processor, memory, bus, devices, hard disk, network interface | | |
| Principles of operat | ing systems. Requirements on operating system for research and technical computing. Operating system UNIX. Basic principles, kernel, k | ernel services. Doc | umentation. |
| File system, file atr | ibutes, working with files. Text editors: vi, emacs. Command interpreter (shell) sh, csh and its programming (scripts). Controlling proces | ses, process statu | s, computer |
| I load a process r | oriorities. Standard tools. Graphical user interface X-windows. Computer networks. Local computer networks. Global computer networ | ks: Internet. Addre | sses and |

| 12PIN2 | Practical Informatics for Technics 2 | Z | 2 |
|---|--|--|--|
| Practically oriented | d three semester course of basics and applications of informatics for science and engineering included as obligatory alternative cours | se. Constituent part | is realized |
| , | in computer classrooms. The second part of the course is "Introduction to computer algebra systems?. | | |
| | | | |
| 12PIN3 | Practical Informatics for Technics 3 | Z | 2 |
| Practically oriented | d three semester course of basics and applications of informatics for science and engineering included as obligatory alternative cours | se. Constituent part | is realized |
| | in computer classrooms. The third part of the course is "Introduction to scientific computing?. | | |
| 12DOAL | | KZ | 2 |
| 12POAL | Computer Algebra | | |
| Lisp, representation | n of basic objects (integers, rational and algebraic numbers, polynomials, rational functions, radicals, algebraic functions), arithmetics, s | implification, greate | est common |
| divisor, resultant, | derivation, series summation, integration, ordinary differential equations, factorization, equations solving, quantifier elimination, subsi | titution and pattern | matching, |
| algebraic programn | ning, graphics, Maple - detailed introduction and solving of practical examples, applications, overview of other systems (Axiom, Macsyi | ma, Mathematica), | miniproject. |
| 12PSEM | Problem Seminary | 7 | 2 |
| _ | l · | | |
| 25 seminaries wit | th topics from the region of solid materials engineering, physical electronics, materials science, nuclear reactors, dosimetry and appli | cation of ionizating | radiation. |
| 12PYTH | Scientific Programming in Python | Z | 2 |
| The aim of this cou | ı rise is to learn the fundamentals of the modern Python programming language with a focus on scientific computing. Emphasis is place | ı ed on effective solu | tions to real |
| | | | |
| • | ourse is performed in an interactive form of practical exercises, whose topics can be tailored to the content of other subjects or stude | | |
| involved in ongoir | ng research. In the introductory part of the course, students learn the basic features of Python?from basic types to object oriented or | functional program | ming. The |
| greater part of th | e course focuses on specific features of Python for scientific programming. Presented are the main numerical libraries NumPy, SciPy | and the Matplotlib | graphics |
| | library. We show how to generate efficient code, how to combine Python with other languages, what tools are available. | | |
| 12TAIS | Ion Beam Techniques and Applications. | ZK | 3 |
| 121413 | · '' | l l | 3 |
| | Production and forming of ion beam, charged particle optics, interaction of ion with solid matter, technological and analytical appli | cations. | |
| 12ULT | Introduction to Laser Technique | Z,ZK | 3 |
| | ctromagnetic radiation sources; laser principle; classification of lasers; characterization and rough application of various types of lase | | cautions |
| | | | |
| 12UMF | Introduction to Modern Physics | Z | 3 |
| The course is inten | ided to be a concise introduction to modern / nonclassical physics for students who have already had basic classical physics course. A | part of the course | is delivered |
| | in a computational laboratory. | | |
| 12VAK | Vacuum Physics and Technology | KZ | 4 |
| | | | - 1 |
| _ | : basic concepts and relations; flow of rarefied gas. Interaction of gas with surface of solid surface; sorption, desorption; evaporation, | _ | |
| through solid ma | atter; Vacuum generation. Pumping process. Pumps.Vacuum measurements: vacuum gauges of total and partial pressure; pumping s | peed; gas flow, cor | nductivity, |
| | searching for leaks. Materials and vacuum instalation parts. Practical exercises. | | |
| 12VFT | High Frequency and Impulse Circuitry | Z,ZK | 2 |
| | rse is to collect advanced knowledge in high frequency technics and high speed events. The course is focused on Maxwell equation s | . , . | |
| The goals of cou | | Solution, Guill's dic | des, riigiri |
| | frequency technics, microwaves guidelines, striplines, oscillators, amplifiers and pulse generators. | | |
| 12VTV | Scientific and Technical Computing | Z | 2 |
| The students get | familiar with methods of solving of computational problems in the scientific and technical practice, and with methods of their program | ming. The course i | s oriented |
| o otado.no got | mainly to programming in the Fortran language. | g | 0 01.01.10 4 |
| | | | |
| | | | |
| 12ZAOP | Fundamentals of Optics | Z,ZK | 2 |
| | | l ' l | |
| The lecture covers | Fundamentals of Optics | trical optics. The m | ain goal of |
| The lecture covers the lecture is to ob | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geomeotain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respec | trical optics. The met to character of the | ain goal of e bachelor |
| The lecture covers the lecture is to ob work. Particular top | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in | trical optics. The most to character of the vacuum (including | ain goal of e bachelor polarization |
| The lecture covers the lecture is to ob work. Particular top effects), and fur | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in | trical optics. The most to character of the vacuum (including of the vacuum) | e bachelor polarization ences in |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference | trical optics. The most to character of the vacuum (including offerms on conseque processes, explains | ain goal of e bachelor polarization ences in s elements |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer | Fundamentals of Optics Is the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next is, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference rence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic. | trical optics. The most to character of the vacuum (including informs on conseque processes, explainal form, including fu | ain goal of e bachelor polarization ences in s elements ndamentals |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome otain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference | trical optics. The most to character of the vacuum (including informs on conseque processes, explainal form, including fu | ain goal of e bachelor polarization ences in s elements ndamentals |
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| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer of grating diffraction app. 12ZDP | Fundamentals of Optics so the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geometrian, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference rence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic in. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical paters in the processing for Publishing | trical optics. The most to character of the vacuum (including nforms on consequing processes, explainal form, including further takes notice on all instruments. | ain goal of e bachelor polarization ences in s elements ndamentals geometrical |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer of grating diffraction app 12ZDP Typography, comp | Fundamentals of Optics is the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectors are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next in it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference rence and their applications in interferometers. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic in. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical paterons of the processing for Publishing utter computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language | trical optics. The mean to to character of the vacuum (including informs on consequencesses, explainal form, including furth takes notice on all instruments. Z s for typesetting (T | ain goal of e bachelor polarization ences in s elements ndamentals geometrical |
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| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer of grating diffraction app. 12ZDP Typography, comp HTML, XML,, p. | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectorics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next is, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference and their applications in interferences. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic in. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical parameters of publishing under computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language publishing into www pages, cloud computing, commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, PP multimedial presentations, multimedial formats. Basic Electronics 1 | trical optics. The met to character of the vacuum (including informs on consequiprocesses, explainal form, including furth takes notice on all instruments. Z s for typesetting (T, S, PPSX, RFT, XLS) | ain goal of e bachelor polarization ences in s elements ndamentals geometrical 2 eX, LaTeX, S, XLSX), |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer of grating diffraction app. 12ZDP Typography, comp HTML, XML,, p. 12ZEL1 The subject providence is to observe the content of the conte | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectorics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next is, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference rence and their applications in interferenceters. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic in. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optic department of the process of the publishing under computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language publishing into www pages, cloud computing, commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, PP multimedial presentations, multimedial formats. Basic Electronics 1 des primary knowledge of circuit theory concerning principles of electronic circuits in both stationary and harmonic stable state. Circuits | trical optics. The met to character of the vacuum (including informs on consequing processes, explainal form, including furth takes notice on all instruments. Z s for typesetting (T, S, PPSX, RFT, XLS) Z,ZK it analysis methods | ain goal of e bachelor polarization ences in s elements ndamentals geometrical 2 eX, LaTeX, S, XLSX), 3 s for linear |
| The lecture covers the lecture is to ob work. Particular top effects), and fur anisotropic media, of two-wave interfer of grating diffraction app. 12ZDP Typography, comp HTML, XML,, p. 12ZEL1 The subject provincircuits includ | Fundamentals of Optics s the very basics of optics - electromagnetic theory, linear optical physics and material effects, basics of nonlinear effects, and geome obtain, on the bachelor level, broad and general information on optics, giving an essential orientation in the field, especially with respectorics are further elaborated during departmental masters program. The lecture stems from the electrodynamic notion of plane waves in their from material medium. It explains basics of linear and nonlinear response in material medium and dispersion properties. It next is, it explains processes induced by boundary conditions at interfaces. It also discusses the consequences of statistics on interference and their applications in interferences. Based on the Fresnel diffraction integral, diffraction processes are presented in a graphic in. Based on this diffraction principle, basic functioning of holography is clarified. Finally, the lecture unravels the geometrical optics limit proach imaging, substitutive schema of a paraxial imaging system, and optical aberrations. It shows fundamentals of imaging in optical parameters of publishing under computer-assisted publishing, coding of text, OCR (optical code recognition), DTP (desk top publishing), programming language publishing into www pages, cloud computing, commonly used graphical formats, formatting of typical data (PDF, PS, DOC, DOCX, PP multimedial presentations, multimedial formats. Basic Electronics 1 | trical optics. The met to character of the vacuum (including informs on consequing processes, explainal form, including furth takes notice on all instruments. Z s for typesetting (T, S, PPSX, RFT, XLS) Z,ZK it analysis methods | ain goal of e bachelor polarization ences in s elements ndamentals geometrical 2 eX, LaTeX, 5, XLSX), 3 s for linear ircuits. |
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| 14TEM | Engineering Mechanics | Z,ZK | 6 |
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| Abstract: The cours | se represents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with stress and strain an (elasticity, plasticity, fracture mechanics, etc.). Principles of statics, kinematics, and dynamics and their application. | nalysis of real sti | ucture parts |
| 14TM The course repre | Engineering Mechanics esents a link-up between the theoretical mechanics of rigid bodies and engineering disciplines dealing with the stress and strain analy | Z,ZK ysis of real struct | 4 ure parts. |
| 14ZZKS | Testing and Processing of Metals and Alloys | KZ | 4 |
| bstract: Tension te | ests, hardness, impact toughness, technological testing, fatigue testing, creep testing. Light microscopy, preparation of specimens for m | nacro- and micro | -observation |
| asting, forming, we | elding, soldering, brazing, powder metallurgy, mechanical machining. Copper alloys, aluminium alloys, titanium alloys, special alloys of drawing and CAD. | non-ferrous met | als. Technica |
| 15CH1 | General Chemistry 1 | Z | 3 |
| he most important | t concepts, quantities and units used in chemistry are introduced in the course General Chemistry I. Their significance and practical us solved in exercises. | se are illustrated | by example |
| 15CH2 | General Chemistry 2 | Z,ZK | 3 |
| | continuation of the course General chemistry I. The main attention is paid to general principles governing chemical processes. Using very principles is not restricted only to chemical processes is documented. The significance and practical use of explained principles are in | | |
| 45011514 | in exercises. | 71/ | |
| 15CHEM | Analytical Calculations and Chemometry Principals basic principles of chemometry including errors in classical and instrumental analysis, probability theory, propagation of errors, basic | ZK | 2 |
| | nce testing, hypothesis testing, least squares regression and correlation, calibration and fitting methods, non-parametric testing, semi | | |
| J | on stoichiometry of redox, acid-base, complex and precipitation reactions, gravimetric stoichiometry. pH calculations, calculations in pospectrophotometry and separation methods, solving of complex forming equilibria. | • | • |
| 15DALCH | History of Alchemy and Chemistry | ZK | 2 |
| - | des the overview of crafts with chemical and/or metallurgical basis. Development of alchemy from ancient times in China, India, and Hi | | 1 |
| The last part of co | course is dedicated to Alchemy in Arabic world and various aspects of alchemy in Latin Europe. The influence of alchemical approach advancement is illustrated. | es development | onto crafts |
| 15INPR | Laboratory Practice in Instrumental Methods | KZ | 4 |
| | of students in the use of selected modern instrumental methods and techniques for solving some physico-chemical analytical and other | | e training is |
| carried o | out in the laboratories of Czech Academy of Sciences (Institute of Physical Chemistry) and partly in laboratory at the Department of N | luclear Chemistr | y. |
| 15ZKJE | Nuclear Power Plants Design and Operation | ZK | 3 |
| - | o create basic knowledge of physics of nuclear reactors utilizing fission. Further explains arrangement of nuclear fuel, purpose, technolog | | |
| | nd construction of all components are defined wit regard to nuclear physics, physics of shielding, theory of regulation, material science | | transfer an |
| | | | |
| dosimetry. Create | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with o | other sources of | energy, to |
| dosimetry. Create | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with o strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear | other sources of | energy, to |
| dosimetry. Create nvironment and to | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. | other sources of power stations. I | energy, to nforms abou |
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| dosimetry. Create nvironment and to 16AMMB Basic principles, te | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. | other sources of power stations. I ZK tion methods, po | energy, to nforms about 2 tentiometry, |
| dosimetry. Create nvironment and to 16AMMB Basic principles, te | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrat | other sources of power stations. I ZK tion methods, po | energy, to nforms about 2 tentiometry, |
| dosimetry. Create nvironment and to 16AMMB Basic principles, te polarography, refra | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrat fractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods | other sources of power stations. I ZK tion methods, po structural analyst ZK | energy, to nforms about 2 tentiometry, sis, nuclear |
| dosimetry. Create nvironment and to 16AMMB Basic principles, to polarography, refra | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrat ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods attorn of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiation | other sources of power stations. I ZK tion methods, po structural analyst ZK | energy, to nforms about 2 tentiometry, sis, nuclear |
| dosimetry. Create nvironment and to 16AMMB Basic principles, to polarography, refractions and the second s | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrate ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods ation of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiation of technological processes. | ZK tion methods, po structural analysis a | energy, to Informs about 2 Itentiometry, sis, nuclear 5 Ind diagnosi |
| dosimetry. Create nvironment and to 16AMMB Basic principles, to polarography, refraction 16APLB ubject The applica | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrat ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods attorn of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiation | ZK tion methods, po structural analysis a ZK | energy, to nforms about 2 tentiometry, sis, nuclear 5 and diagnosi 2 |
| dosimetry. Create nvironment and to 16AMMB Basic principles, to polarography, refraction and the second se | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrate ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods ation of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiation of technological processes. Exact Methods in Research of Historic Monuments | ZK tion methods, po Structural analysis a ZK in the analysis a | energy, to nforms about 2 tentiometry, sis, nuclear 5 and diagnosi 2 rochronology |
| dosimetry. Create nvironment and to 16AMMB Basic principles, to polarography, refraction and the second se | tes knowledge for evaluation of nuclear safety and radiation protection in nuclear energy, reliability and economy for comparison with of strategic importancy of nuclear sources of energy. Gives basic knowledge of construction, operation and decommissioning of nuclear high level nuclear waste and spent fuel and their management. Fundamentals of Analytical Measurement Methods echnical performance and utilization of methods of chemical analysis. Basic methodology of analytical determination, gravimetry, titrat ractometry, polarimetry, UV-VIS spectroscopy, atomic emission and absorption spectroscopy, infrared and Raman spectroscopy, X-ray magnetic and electron spin resonance, mass spectrometry, thermometric methods, gas and liquid chromatography. Application of Ionizing Radiation in Analytical Methods ation of ionizing radiation in analytical methods is devoted to radioanalytical methods and the use of radionuclides and ionizing radiation of technological processes. Exact Methods in Research of Historic Monuments of historic monument investigations, methods of age determination (radiocarbon, thermoluminescence and related methods, further radiationsm), analytical methods for determination of origin and production technologies of artefacts (activation analysis, X-ray fluorescence and related methods). | ZK tion methods, po Structural analysis a ZK in the analysis a | energy, to nforms about 2 tentiometry, sis, nuclear 5 and diagnosi 2 rochronolog |
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| _ | Fundamentals of Human Biology, Anatomy and Physiology 1 | Z,ZK | 4 |
|--|--|---|---|
| _ | r and an invariance of Franker Blology, Anatomy and Fryslology Franker wing systems, non-cellular and cellular organisms, prokaryotic and eukaryotic cell. Molecular and cell biology. Biopolymers. Molecular | • | |
| their regulation Go | eneral human anatomy. Basics of medical terminology. Overview of tissues. Skeleton. Muscle anatomy in general. Digestive system a | - | |
| tilon rogulation. O | system and physiology of respiration. Excretory and genital tract. | na na priyalalagy. I | (oopiiatory |
| 16ZBAF2 | Fundamentals of Human Biology, Anatomy and Physiology 2 | Z,ZK | 4 |
| | ogy of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood | | |
| | ogy of cardiac activity. General anatomy of blood vessels, main arteries of the body, overview of veins and physiology of blood, blood. 5. Visual system and physiology of the visual system. Auditory and vestibular system and physiology of hearing and balance. Skin, en | - | or rierves. |
| | | | 4 |
| 16ZDOZ1 | Fundamentals of Radiation Dosimetry 1 | Z,ZK | 4 |
| History, develop | oment, and objectives of dosimetry. Quantities and units used for description of sources, fields, interactions of ionizing radiation, ionization, characteristics. | ations, energy tran | ster and |
| 4070070 | absorption. Fundamentals of the effects of ionizing radiation. | 717 | |
| 16ZDOZ2 | Fundamentals of Radiation Dosimetry 2 | ZK | 2 |
| Fundamentals of bi | ological effects of ionizing radiation. Quantities and units used in radiation protection. Recommendations of ICRP and ICRU. Principles a | and methods of me | asurements |
| | in dosimetry. Determination of activity and neutron source emission. Measurements of absorbed dose and exposure. | | |
| 16ZEDB | Basics of Experimantal Data Processing | ZK | 2 |
| | Statistical analysis of experimental data; univariate data; calibration; regression; multivariate data. | | |
| 16ZIVB | Introduction to Ecology | KZ | 2 |
| The subject inform | about basic of the ecologic principles, terms and ideas. It covers overview information regarding to particular components of the enviro | nment and evalua | te economic |
| | indicators and sustainable development. | | |
| 16ZJTB | Nuclear Energy Facilities and Accelerators | ZK | 2 |
| Basic scheme of | nuclear reactor and nuclear power plant, chain fission reaction development, main components of nuclear energetic reactor, most in | portant reactor typ | es, linear |
| high-voltage acce | elerators, linear high-frequency accelerators, accelerators based on cyclotron, microtron, betatron, electron and proton synchrotrons, | electron and ion s | ources for |
| | accelerators, targets. | | |
| 16ZPSP | Basic Work with PC | Z | 2 |
| | rse is to acquaint students with the basic skills related to working on a personal computer. The introductory part of the course is devot | _ | |
| | e at the CTU in Prague and the FNSPE. Emphasis is placed on effective handling of work with office productivity software (text editor, | | - |
| | ercises in MS Office. The practical content focuses mainly on further use during studies (laboratory reports, research work, bachelor's | | |
| · · | ospitals, state administration, companies). Other sections summarize basic information about computer hardware, software, and secur | • | |
| opoomo pidodoo (iii | home exercises and participation in exercises above 60% is a necessary condition for passing the course. | | |
| 16ZRAO | Basics of Radiation Protection | Z | 2 |
| | rse is to familiarize students with the general principles of radiation protection. The main emphasis is put on basic mechanisms and cor | _ | |
| | ield. The course provides answers to the cardinal questions: What is ionizing radiation (IR), where it comes from, whether and how it | - | |
| | ng of protective units (Gray, Sievert), how to prevent malicious effect of IR and many others. The content of the lectures does not requ | | |
| | | | |
| 17ENF | Experimental Neutron Physics | KZ . | 2 |
| | mainly focused on detailed characterisation of neutron properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics of neutron (reactor and non reactor) sources, properties, characteristics (reactor and non reactor) sources, properties, characteristics (reactor and non reactor) sources, properties, characteristics (reactor and non reactor) sources, properties (reactor and non reactor) sources, properties (reactor and non reactor and non reactor) sources (reactor and non reactor and non reactor) sources (reactor and non reactor and non reactor) sources (reactor and non reactor and no | | - |
| | detection methods, neutron induced nuclear reactions, modification and adjustment of neutron field, science and industry neutron approximately and the state of t | • | |
| | lata processing and analysis. The lectures are supplemented with experimental practices in the field of neutron detection, determination | = | |
| study of neutron dir | fusion in various materials, preparation and characterisation of photo-neutron source and neutron source calibration. Experimental practical descriptions and the second s | ctices will be runnin | ig at training |
| | reactor VR-1 and in the neutron laboratory. | | |
| | | | |
| 17JARE | Nuclear Reactors | ZK | 2 |
| Introduction. World | power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety system | ns, containment. C | lassification |
| Introduction. World of reactors into IV g | power issue. Previous evolution of power reactor. Nuclear fission reactors, fuel assemblies, active core, control systems, safety system jenerations. Standard types of nuclear power reactors: concept, description, layout, previous evolution, world share, perspectives. Pres | ns, containment. C surized water reac | lassification tors (PWR). |
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| 18ESPG2 | European Computer Driving Licence 2 | Z | 2 |
|-----------------------|---|---------------------|----------------|
| | tors are an important tool, especially for students and graduates in Software engineering in economics. Summer semester follows the | winter semester w | vith advanced |
| | topics (charts, objects, graphical user interface, add-ins programming) and introduces some applications in economics, mathemati- | | |
| | computer science. | • | |
| 18INTA | Development of internet applications | KZ | 4 |
| he lectures provide | e an overview of modern technologies for the development of web applications. Students will learn basic web languages and concept | ots (HTML, URL, | etc.) and the |
| • | ed to relational database systems. The tutorials are dedicated to practical examples of building web applications, from the simplest | | |
| | is oriented primarily towards backend technologies and using the Python languages, but covers also frontend frameworks and Jan | | |
| 18MAK1 | Macroeconomics 1 | Z,ZK | 4 |
| 1 | provides students with a fundamental theoretical basis for understanding how an economy works. It introduces main macroeconomy | 1 ' | ney market, |
| nacroeconomic equ | illibrium theory, fundamentals of open economy theory, inflation, unemployment, economic growth, economic fluctuations, basic ma | croeconomic mod | dels of IS-LN |
| S-AD and their imp | lications for economic policies. The learning outcomes of the course is to equip students with ability to analyze macroeconomic phenon | nena and their inte | erconnection |
| | and subsequently to use them under the conditions of modern economic life. | | |
| 18MAK2 | Macroeconomics 2 | Z,ZK | 4 |
| | extends theoretical knowledge acquired from Macroeconomics I of its students with the latest knowledge of contemporary macroeconomics | conomics. They a | re models of |
| economic growth, e | especially those with an emphasis on the role of human capital and technological progress. Furthermore, it introduces students to m | nodern principles | of economic |
| nodeling, i.e., macro | peconomic models derived from microeconomic behavior of subjects and economics and their rational expectations. It also provides st | udents with mode | rn knowledg |
| | of labor market modeling. | | |
| 18MIK1 | Microeconomics 1 | Z,ZK | 5 |
| licroeconomics is a | a set of theories, which help us to understand processes by which the scarce resources are allocated among alternative uses. Micro | economics expla | ins the role o |
| prices and market | ts in these processes, and makes more clear behaviour of the economic agents. This course of Microeconomics I consist of introdu | ction in Microecor | nomics and |
| | Consumer Theory. | | |
| 18MIK2 | Microeconomics 2 | Z,ZK | 5 |
| dicroeconomics is a | a set of theories, helping us to understand process by which scarce resources are allocated among alternative uses. Microeconomic | s explain the role | of prices an |
| markets in | this process and make clear economic agents behaviour. The lectures of Microeconomics II are oriented on Theory of Firm and Inc | dustrial Organisat | ion. |
| 18MPT | Programming in MATLAB | KZ | 5 |
| The subject acquai | ints students with various programming techniques in the Matlab environment. The emphasis is placed on the differences in prograr | nming methodolo | gy in Matlab |
| | compared to classical languages. | _ | |
| 18MTL | Programming in MATLAB | Z.ZK | 5 |
| | environment as efficient tool for computation in complex arrays and symbolic variables, namely for linear algebra, mathematic analy | , | - |
| · · | and geometric representation of results. | , , , | |
| 18PAS | Pascal Programming | Z | 4 |
| | tended mainly for students, with little or no experience in programming. It familiarizes the students with the basic concepts in progra | _ | 1 |
| | programming language. | 3 | |
| 18PJ | Programming in Java | Z,ZK | 5 |
| 10.0 | This course is devoted to the Java platform and to the development of the basic types of applications for this platform. | _,_, | 1 |
| 18PRC1 | Programming in C++ 1 | Z | 4 |
| ioi ito i | This course covers mainly the C programming language and non-object oriented features of the C++ language. | _ | - |
| 18PRC2 | Programming in C++ 2 | KZ | 4 |
| | riogramming in C++ 2 urse covers the object oriented programming and othesr advanced constructs in the C+;+ programming language and the Standard | 1 | - |
| | | | |
| 18UOA | Introduction into Object Oriented Architecture | Z,ZK | 4 |
| 18ZALG | Basics of Algorithmization | Z,ZK | 4 |
| This course is | devoted to selected algorithms and methods for algorithm design. This course intruduces selected methods for the determination of | | -i |
| 18ZPRO | Basics of Programming | Z | 4 |
| This course is in | tended mainly for students with little or no experience in programming. It familiarizes the students with the basic concepts in program | mming and with tl | he Python |
| · | programming language. | | Tr. |
| TV-1 | Physical Education | Z | 1 |
| TV-2 | Physical Education | Z | 1 |
| TV-3 | Physical education | Z | 1 |
| | | | |

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-17, time 08:16.

TV-4

Physical education