Study plan

Name of study plan: Electrical Engineering, Power Engineering and Management - Applied Electrical Engineering 2018

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Electrical Engineering, Power Engineering and Management

Type of study: Bachelor full-time

Required credits: 177
Elective courses credits: 3
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 133

The role of the block: P

Code of the group: 2018_BEEMBAP Name of the group: Bachelor Project

Requirement credits in the group: In this group you have to gain 15 credits Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 15 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 |
|--------|---|------------|---------|-------|----------|------|
| BBAP15 | Bachelor thesis | Z | 15 | 15s | L,Z | Р |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMBAP Name=Bachelor Project

| | | | <u> </u> | | |
|--------|-----------------|--|----------|---|----|
| BBAP15 | Bachelor thesis | | | Z | 15 |

Code of the group: 2018 BEEMBBE

Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|------|---|------------|---------|---------|----------|------|
| BEZB | Safety in Electrical Engineering for a Bachelor's Degree Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.) | Z | 0 | 2BP+2BC | Z,L | Р |
| BEZZ | Basic Health and Occupational Safety Regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar) | Z | 0 | 2BP+2BC | Z | Р |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMBBE Name=Safety of the bachelor's studies

| BEZB | Safety in Electrical Engineering for a Bachelor´s Degree | Z | 0 |
|-------------------------|---|--------------------|--------|
| The purpose of the safe | ation of it. This into | oductory course | |
| contains fundamentals | of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work | on electrical equi | pment. |
| BEZZ | Basic Health and Occupational Safety Regulations | Z | 0 |

The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.

Code of the group: 2018_BEEMP

Name of the group: Compulsory subjects of the programme

Requirement credits in the group: In this group you have to gain 118 credits

Requirement courses in the group: In this group you have to complete 24 courses

Credits in the group: 118

Note on the group:

| Note on the gro | <u> </u> | | | | | |
|-----------------|--|------------|---------|----------|----------|------|
| 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 |
| B0B01DRN | Differencial Equations and Numerical Analysis Petr Habala, Jakub Rondoš, Jakub Stan k, Daniel Gromada, Josef Dvo ák Petr Habala Petr Habala (Gar.) | Z,ZK | 4 | 2P+2C | L | Р |
| B1B38EMA | Electrical Measurements Jakub Svatoš Jakub Svatoš (Gar.) | KZ | 5 | 2P+2L | L | Р |
| B1B31EOS | Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.) | Z,ZK | 6 | 3P+2S | Z | Р |
| B1B15EN11 | Power Engineering 1 Ladislav Musil, Ivo Doležel | Z,ZK | 5 | 3P+2S | L | Р |
| B1B15EN2 | Power Engineering 2 Ivo Doležel, Zden k Müller | Z,ZK | 5 | 2P+2L | Z | Р |
| B1B17EMP | Electromagnetic Field Vít zslav Pankrác Vít zslav Pankrác (Gar.) | Z,ZK | 5 | 2P+2C | Z | Р |
| B1B34EPS | Elektronics for Heavy-current engeneering Vladimír Janí ek, Adam Bou a, Jan Novák, Tomáš Teplý, Tomáš Martan Vladimír Janí ek Vladimír Janí ek (Gar.) | KZ | 4 | 2P+2L | Z | Р |
| B1B02FY1 | Physics 1 Petr Koní ek Petr Koní ek Petr Koní ek (Gar.) | Z,ZK | 8 | 4P+1L+2C | L | Р |
| B1B02FY2 | Physics 2 Petr Koní ek, Marek Brothánek, Vojt ch Jandák Petr Koní ek Petr Koní ek (Gar.) | Z,ZK | 7 | 3P+1L+2C | Z | Р |
| B0B01KANA | Complex Analysis Zden k Mihula, Hana Tur inová Zden k Mihula Zden k Mihula (Gar.) | Z,ZK | 4 | 2P+2S | Z | Р |
| B0B01LAGA | Linear Algebra Jakub Rondoš, Daniel Gromada, Josef Dvo ák, Ji í Velebil, Martin Bohata, Alena Gollová, Natalie Žukovec, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.) | Z,ZK | 7 | 4P+2S | Z | Р |
| B0B01MA1A | Mathematical Analysis 1 Josef Dvo ák, Martin Bohata, Veronika Sobotíková, Karel Pospíšil Veronika Sobotíková Veronika Sobotíková (Gar.) | Z,ZK | 6 | 4P+2S | Z | Р |
| B0B01MA2A | Mathematical Analysis 2 Veronika Sobotíková, Jaroslav Tišer, Martin K epela, Miroslav Korbelá Jaroslav Tišer Jaroslav Tišer (Gar.) | Z,ZK | 6 | 4P+2S | L | Р |
| B1B13MVE1 | Materials for Power Electrical Engineering Jan Zemen, Pavel Mach, Josef Sedlá ek, Karel Dušek, Ivana Beshajová Pelikánová Karel Dušek Pavel Mach (Gar.) | Z,ZK | 4 | 2P+2L | Z | Р |
| B0B99PRPA | Procedural Programming Stanislav Vítek Stanislav Vítek (Gar.) | KZ | 4 | 2P+2C | Z | Р |
| B1BPROJ4 | Bachelor project Zden k Müller, Ivana Beshajová Pelikánová, Jan Mikeš, Jan Kyncl, Jan Bauer, Karel Künzel, Stanislav Bou ek, Ji í Vaší ek, Miroslav Vítek, Jan Bauer Jan Bauer (Gar.) | Z | 4 | 4s | Z,L | Р |
| B1B13PPS | Industrial computer systems Karel Künzel Karel Künzel Karel Künzel (Gar.) | Z,ZK | 4 | 2P+2L | L | Р |
| B1B13TEP | Electrical engineering technological processes Pavel Mach, Karel Dušek, Petr Veselý, Jan Kuba, Radek Procházka Karel Dušek Pavel Mach (Gar.) | Z,ZK | 4 | 3P+2L | L | Р |
| B1B15VYA | Computational Applications Jan Kyncl Jan Kyncl (Gar.) | KZ | 4 | 2P+2C | L | Р |
| B1B13VVZ1 | Manufacturing of Power Devices Radek Procházka, Ji í Hájek, Petr Gric Ji í Hájek Ji í Hájek (Gar.) | Z,ZK | 4 | 2P+2L | Z | Р |
| B1B14ZPO | Fundametals of Electric Drives Pavel Kobrle Pavel Kobrle | Z,ZK | 5 | 2P+2L | Z | Р |
| B1B14ZSP | Electric Machines and Apparatuses Basics Pavel Kobrle, Pavel Mindl Pavel Kobrle Pavel Kobrle (Gar.) | Z,ZK | 5 | 3P+2L | L | Р |
| B1B14ZEL1 | Fundamentals of Electrotechnical Engineering Ivana Nová, Vít Hlinovský, Ji í Beranovský Ivana Nová | KZ | 4 | 2P+2C | Z | Р |
| B1B14ZVE | Power Electronics Jan Bauer, Ji í Lettl Ji í Lettl (Gar.) | Z,ZK | 4 | 2P+2L | Z | Р |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMP Name=Compulsory subjects of the programme

B0B01DRN Differencial Equations and Numerical Analysis

Z,ZK

4

This course introduces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical methods (errors in calculations and stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view.

| B1B38EMA | Electrical Measurements | KZ | 5 |
|--|--|--|---|
| | o fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measure apacitance and inductance) a structure and properties of measuring instruments are explained including principles of their co | | |
| · · · · · · | Is of magnetic measurements close the course. | meet application a | ind an accuracy |
| B1B31EOS | Electric circuits | Z,ZK | 6 |
| The subject describes fu | undamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from sch | ools of different c | ategories and |
| | dge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the beha | | |
| | isoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, al ysis and simulation of electrical circuits by means of software tools. | so be used for crit | cal assessment |
| B1B15EN11 | | Z,ZK | 5 |
| B1B15EN2 | Power Engineering 1 Power Engineering 2 | Z,ZK | 5 |
| B1B17EMP | Electromagnetic Field | Z,ZK | 5 |
| | lents acquinted with principles and applied electromagnetic field theory basics. | ۷,۷۱۲ | 3 |
| B1B34EPS | Elektronics for Heavy-current engeneering | KZ | 4 |
| Knowledge of current ba | sic passive and active electronic components. Structure, physical and circuit properties of components. Component behavio | l l | ith both small |
| | and optical signals. More complex circuit systems and communication technologies. Measuring the most important application | ons of modern se | miconductor |
| devices. | | | |
| · · | Physics 1 | Z,ZK | 8 |
| · · | sics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The e electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dyna | | |
| | gid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which th | | |
| | echanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The | - | - |
| in this course in the stud | ly of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this cour | rse is required for | the study of the |
| consecutive course Phys | | | |
| B1B02FY2 | Physics 2 | Z,ZK | 7 |
| • | closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of vill give to the students basic insight into the properties of waves and will help to the students to understand that the presente | • | • . |
| | ite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following sect | - | |
| | plete the student?s general education in physics. The knowledge gained in this course will help to the students in study of su | | |
| | ring technique and will allow them to understand the principles of novel technologies and functioning of new electronic device | | |
| B0B01KANA | Complex Analysis | Z,ZK | 4 |
| | iction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform | are explained, inc | luding their |
| | to solving differential and difference equations. | – – 1 | |
| · · | Linear Algebra | Z,ZK | 7 |
| | fuctory topics of linear algebra. It begins with fundamental concepts related to vector spaces and linear transform (such as linea inates of vectors, etc.). The next part of the course is devoted to matrix theory (determinants, inverse matrix, matrices of linea | - | |
| or voolors, basse, seema | mated of voctors, story. The next part of the course is devoted to matrix theory (determinante, inverse matrix, matrices of infed | | |
| eigenvectors). Application | ons include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and | | - |
| eigenvectors). Application of a matrix. | ons include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and | | - |
| | ons include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and Mathematical Analysis 1 | | - |
| of a matrix. B0B01MA1A This is an introductory c | Mathematical Analysis 1 ourse to differential and integral calculus of functions of one real variable. | the singular value | decomposition |
| of a matrix. B0B01MA1A This is an introductory c B0B01MA2A | Mathematical Analysis 1 ourse to differential and integral calculus of functions of one real variable. Mathematical Analysis 2 | z,zk | e decomposition 6 |
| of a matrix. B0B01MA1A This is an introductory of B0B01MA2A The subject covers an in | Mathematical Analysis 1 ourse to differential and integral calculus of functions of one real variable. Mathematical Analysis 2 itroduction to the differential and integral calculus in several variables and basic relations between curve and surface integral | z,zk | e decomposition 6 |
| of a matrix. B0B01MA1A This is an introductory of B0B01MA2A The subject covers an ir series and power series | Mathematical Analysis 1 ourse to differential and integral calculus of functions of one real variable. Mathematical Analysis 2 Introduction to the differential and integral calculus in several variables and basic relations between curve and surface integral with application to Taylor and Fourier series. | Z,ZK Z,ZK z,ZK s. Other part cont | 6 6 ains function |
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Fundamentals of Electrotechnical Engineering

The course extends necessary knowledge of creating technical documentation, including oral and written presentation of technical information. The second half of the semester is focused on explaining and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed in the following semesters.

B1B14ZVE Power Electronics Z,ZK

The course focuses on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introduced to the basic principles, properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing.

Code of the group: 2015_BZAJ

Name of the group: Exam from the english language

Requirement credits in the group:

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

Credits in the group: 0 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| B0B04B1K | English language B1 - classified assessment Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings (Gar.) | KZ | 0 | 0C | Z,L | Р |
| B0B04B2Z | English language B2 - exam Markéta Havlí ková, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.) | Z,ZK | 0 | 0C | Z,L | Р |

Characteristics of the courses of this group of Study Plan; Code=2015 BZAJ Name=Exam from the english language

| B0B04B1K | English language B1 - classified assessment | KZ | 0 |
|--------------------------|---|------|---|
| verifying of the student | 's skills of B1 level | ' | |
| B0B04B2Z | English language B2 - exam | Z.ZK | 0 |

I) The B2 English Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Study and Examination Rules and Regulations for Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully complete the study programme. In addition, this requires the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common European Framework of Reference for Languages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 (Upper-Intermediate) level is one who can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers guite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an approved international exam within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are then exempt from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/

Name of the block: Povinné p edm ty zam

Minimal number of credits of the block: 30

The role of the block: PZ

Code of the group: 2018_BEEMPS1

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 30

Note on the group:

Specializace - aplikovaná elektrotechnika

| 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 |
|-----------|---|------------|---------|-------|----------|------|
| B1B15EN3 | Power Engineering 3 Jan Kyncl, Petr Žák, Petr Žák Jan Kyncl (Gar.) | KZ | 4 | 2P+2L | Z | PZ |
| B1B16MME | Macro and Microekonomics Miroslav Vítek, Josef ernohous, Helena Fialová, Lubomír Lízal, Jan Jandera, Blanka Ku erková Helena Fialová Lubomír Lízal (Gar.) | Z,ZK | 5 | 2P+2S | Z | PZ |
| B1B14MIS | Microprocessors for Power Systems Jan Bauer Jan Bauer Ji í Zd nek (Gar.) | Z,ZK | 5 | 2P+2L | Z | PZ |
| B1B13SSE1 | Solar Systems and Electrochemical Sources Pavel Hrzina, Vít zslav Benda Pavel Hrzina Vít zslav Benda (Gar.) | Z,ZK | 5 | 2P+2L | L | PZ |
| B0B01STP | Statistics and Probability Jakub Stan k, Miroslav Korbelá, Kate ina Helisová, Bogdan Radovi Kate ina Helisová Kate ina Helisová (Gar.) | Z,ZK | 5 | 2P+2S | L | PZ |
| B1B13VES | Manufacturing of Electrical Components Václav Papež Václav Papež Václav Papež (Gar.) | Z,ZK | 6 | 2P+2L | L | PZ |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMPS1 Name=Compulsory subjects of the branch

| B1B15EN3 | Power Engineering 3 | KZ | 4 |
|----------|--------------------------|------|---|
| B1B16MME | Macro and Microekonomics | Z,ZK | 5 |

Basic economic terms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, producer's behavior, cost, revenue, profit, market failure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary policy, labor market, business cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.

B1B14MIS Microprocessors for Power Systems

Z,ZK 5

I DMA system, analog signal

Power electronics control computer structure, digital signal processor and ALU added features for fast real time calculations. Interrupt system and DMA system, analog signal measurement, fast impulse signal measurement, fast impulse generation support, inter-computer communication, system and power management, programming languages for power systems software development, programming techniques, software development tools (simulators, emulators, monitors), input signal conditioning circuitry, conversion from analog signals to digital processing, time sampling, amplitude quatization, power electronics control block design and implementation, difference equations and control algorithms, fixed and floating point calculations, debugging methods, program parametrization, guides and rules for implementation and application of power system control computers. Real time operating system, scheduler, dispatcher and another features and guides for application

B1B13SSE1 Solar Systems and Electrochemical Sources

Z,ZK

The course familiarizes students with the basic principles of electrochemical sources and photovoltaic cells and systems. At the beginning, the emphasis is on understanding the basic principle using the equivalent circuits and mathematical description. In the next section, the basic types of electrochemical sources and their technical parameters are explored separately. Similarly, students become familiar with the technology of photovoltaic cells and modules. Another chapter is devoted to the basic applications such as solar-thermal. At the end of the course, students become familiar with economical and technological implications of the combination of solar systems and electrochemical sources.

B0B01STP Statistics and Probability

' 7K

5

The aim of the course is to introduce students to the fundamentals of probability theory and mathematical statistics, their computational methods as well as applications of these mathematical tools to practical examples.

B1B13VES Manufacturing of Electrical Components

Z,ZK

6

Technology of electric components in general. Basic technology in use. Type of components: resistors, potentiometers, capacitors with foil dielectric. Ceramic and electrolytic capacitors. Electromechanical devices. Semiconductors, fabrication of vertical and horizontal structures. Packaging.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 14

The role of the block: PV

Code of the group: 2018_BEEMH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 28)

Requirement courses in the group: In this group you have to complete at least 1 course (at most 9)

Credits in the group: 4 Note on the group:

| 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 |
| B0B16ET1 | Ethic 1 Vladimír Sláme ka Vladimír Sláme ka (Gar.) | KZ | 4 | 2P+2C | Z | PV |
| B0B16FIL | Philosophy Peter Zamarovský Peter Zamarovský (Gar.) | ZK | 2 | 2P+0S | Z,L | PV |
| B0B16FI1 | Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.) | KZ | 4 | 2P+2S | Z | PV |
| B0B16HTE | History of technology and economic Jan Mikeš, Marcela Efmertová Marcela Efmertová (Gar.) | ZK | 2 | 2P+0S | Z,L | PV |
| B0B16HT1 | History of science and technology 1 Jan Mikeš, Marcela Efmertová Marcela Efmertová (Gar.) | KZ | 4 | 2P+2S | Z | PV |
| B0B16HI1 | History 1 Milena Josefovi ová Milena Josefovi ová (Gar.) | KZ | 4 | 2P+2S | Z | PV |
| B0B16MPS | Psychology Jan Fiala Jan Fiala (Gar.) | Z,ZK | 4 | 2P+2S | Z,L | PV |
| B0B16MPL | Psychology for managers Jan Fiala Jan Fiala (Gar.) | ZK | 2 | 2P+0S | Z,L | PV |
| A003TV | Physical Education Ji i Drnek | Z | 2 | 0+2 | L,Z | PV |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMH Name=Humanities subjects

| B0B16ET1 | Ethic 1 | KZ | 4 |
|------------------------|--|-------------------|---------------------|
| Aim of this subject is | o provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various | situations of hum | nan life. Essential |
| parts of the subject a | e discussions in which students can react to lectures but also to actual questions coming with news and look for the communa | l answers. | |
| B0B16FIL | Philosophy | ZK | 2 |
| We deal with the mos | t important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo | sophy and conne | ction of old |
| philosophical thought | s with recent problems of science, technology, economics and politics. | | |
| B0B16FI1 | Philosophy 1 | KZ | 4 |
| We deal with the mos | t important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo | sophy and conne | ction of old |
| philosophical thought | s with recent problems of science, technology, economics and politics. | | |
| B0B16HTE | History of technology and economic | ZK | 2 |
| B0B16HT1 | History of science and technology 1 | KZ | 4 |
| B0B16HI1 | History 1 | K7 | 4 |

| B0B16MPS | Psychology | Z,ZK | 4 |
|----------|-------------------------|------|---|
| B0B16MPL | Psychology for managers | ZK | 2 |
| A003TV | Physical Education | Z | 2 |

Code of the group: 2018_BEEMPV1

Name of the group: Compulsory subjects of the programm

Requirement credits in the group: In this group you have to gain 10 credits

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

Credits in the group: 10

Note on the group:

Specializace - Aplikovaná elektrotechnika

| 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 |
|-----------|---|------------|---------|-------|----------|------|
| B1B15EPR1 | Projects in Power Engineering Jan Koller, Pavel Zezula Jan Koller (Gar.) | KZ | 5 | 2P+2S | L | PV |
| B1B14TME1 | Engineering mechanics Petr Ko árník Petr Ko árník Petr Ko árník (Gar.) | Z,ZK | 5 | 2P+2C | L | PV |
| B1B13TPR | Technological Project Planning Karel Dušek, Petr Gric, Martin Molhanec Karel Dušek Martin Molhanec (Gar.) | Z,ZK | 5 | 2P+2S | L | PV |
| B1B16UEE1 | Economy of Power Industry Ji í Vaší ek, Miroslav Vítek, Jaroslav Knápek Miroslav Vítek Jaroslav Knápek (Gar.) | Z,ZK | 5 | 2P+2C | Z | PV |

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMPV1 Name=Compulsory subjects of the programm

| Projects in Power Engineering | KZ | 5 | | | |
|--|--|---|--|--|--|
| Engineering mechanics | Z,ZK | 5 | | | |
| his course provides knowledge of applied mechanics for the industry practice. Analysis of constructional elements and their dimensioning. Kinematics of simple mechanisms. Dyn | | | | | |
| behaviour of mechanical systems, mechanic vibrations. Thermodynamics of real gases and vapours, their processes an cycles, basic comparative cycles of heat machines. Fundamenta | | | | | |
| of hydrodynamics, transport losses in hydraulic systems. | | | | | |
| Technological Project Planning | Z,ZK | 5 | | | |
| nagement. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational projec | t structure. Strate | jic management: | | | |
| SWOT, PEST and 5F. Project logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and norms. Human resources | | | | | |
| management. Funding. | | | | | |
| Economy of Power Industry | Z,ZK | 5 | | | |
| | Engineering mechanics owledge of applied mechanics for the industry practice. Analysis of constructional elements and their dimensioning. Kinematic I systems, mechanic vibrations. Thermodynamics of real gases and vapours, their processes an cycles, basic comparative cycle sport losses in hydraulic systems. Technological Project Planning nagement. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational project roject logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and | Engineering mechanics Z,ZK owledge of applied mechanics for the industry practice. Analysis of constructional elements and their dimensioning. Kinematics of simple mechanic systems, mechanic vibrations. Thermodynamics of real gases and vapours, their processes an cycles, basic comparative cycles of heat machine sport losses in hydraulic systems. Technological Project Planning Z,ZK nagement. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational project structure. Strategroject logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and norms. Human response in the project schedule of the constructional project schedule. | | | |

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

The role of the block: V

Code of the group: 2015_BJKA

Name of the group: English language courses

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

Credits in the group: 0 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|----------|---|------------|---------|-------|----------|------|
| B0B04A21 | English Language A2-1 Dana Saláková | Z | | 2s | Z | V |
| B0B04A22 | English Language A2-2 Dana Saláková | Z | 0 | 2s | L | V |
| B0B04B11 | English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 0 | 2C | Z | V |
| B0B04B12 | English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 0 | 2C | L | V |
| B0B04B21 | English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 3 | 2C | Z | V |
| B0B04B22 | English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 3 | 2C | Z,L | V |

Characteristics of the courses of this group of Study Plan: Code=2015_BJKA Name=English language courses

| B0B04A21 | English Language A2-1 | Z | |
|-------------------------|--|---|--|
| The course is open to s | tudents who are beginners in their second language. Course objective: Achieving competence in basic English. | | |

| B0B04A22 | English Language A2-2 | Z | 0 |
|-------------------------|---|---------------------|------------------|
| The course is open to | students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowl | edge of the Englis | sh language. |
| B0B04B11 | English Language B1-1 | Z | 0 |
| Course objective: Broa | dening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary | expansion; under | standing spoken |
| English. | | | |
| B0B04B12 | English Language B1-2 | Z | 0 |
| Course objective: Broa | dening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary | expansion; under | standing spoken |
| English. | | | |
| B0B04B21 | English Language B2-1 | Z | 3 |
| This course is designed | d as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk | B2 - zkouška - B0 | B04B2Z*). While |
| the course is focused | on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark | k), it also focuses | more on the |
| academic and technic | al vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appro | priate level of Eng | lish for Erasmus |
| / International Study. | | | |
| B0B04B22 | English Language B2-2 | Z | 3 |
| This course is designed | d as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk E | 32 - zkouška - B0E | 304B2Z *). While |
| the course is focused | on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark | k), it also focuses | more on the |
| academic and technic | al vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appro | priate level of Eng | lish for Erasmus |
| / International Study. | | | |

Code of the group: BTV

Name of the group: Physical education

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 |
|--------|---|------------|---------|-------|----------|------|
| TVV | Physical education | Z | 0 | 0+2 | Z,L | V |
| A003TV | Physical Education Ji í Drnek | Z | 2 | 0+2 | L,Z | V |
| TV-V1 | Physical education | Z | 1 | 0+2 | Z,L | V |
| TVV0 | Physical education | Z | 0 | 0+2 | Z,L | V |

Characteristics of the courses of this group of Study Plan: Code=BTV Name=Physical education

| Onanaotoniotico e | onal action case of the deal coe of the group of clady Flam code = 1.7 Hame = 1.19 clad cadealon | | | | | | |
|-------------------|--|---|---|--|--|--|--|
| A003TV | Physical Education | Z | 2 | | | | |
| TVV | Physical education | Z | 0 | | | | |
| TV-V1 | Physical education | Z | 1 | | | | |
| TVV0 | Physical education | Z | 0 | | | | |

Code of the group: BTVK

Name of the group: Physical education courses

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

Credits in the group: 0 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|-------|---|------------|---------|-------|----------|------|
| TVKLV | Physical Education Course | Z | 0 | 7dní | L | V |
| TVKZV | Physical Education Course | Z | 0 | 7dní | Z | V |

Characteristics of the courses of this group of Study Plan: Code=BTVK Name=Physical education courses

| | <u> </u> | | |
|-------|---------------------------|---|---|
| TVKLV | Physical Education Course | Z | 0 |
| TVKZV | Physical Education Course | Z | 0 |

Code of the group: 2018_BEEMVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|--|--|--|---|
| A003TV | Physical Education | Z | 2 |
| B0B01DRN | Differencial Equations and Numerical Analysis | Z,ZK | 4 |
| | ices students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical methods | • | |
| <u>-</u> | al solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretica | | int of view. |
| B0B01KANA | Complex Analysis | Z,ZK | 4 |
| The course is an | introduction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform a | re explained, inclu | iding their |
| DODO4LACA | applications, particularly to solving differential and difference equations. | 7 71/ | 7 |
| B0B01LAGA | Linear Algebra introductory topics of linear algebra. It begins with fundamental concepts related to vector spaces and linear transform (such as linear de | Z,ZK | 7 |
| | coordinates of vectors, etc.). The next part of the course is devoted to matrix theory (determinants, inverse matrix, matrices of linear tra | | |
| | lications include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and the of a matrix. | _ | |
| B0B01MA1A | Mathematical Analysis 1 | Z,ZK | 6 |
| 2020 | This is an introductory course to differential and integral calculus of functions of one real variable. | _, | |
| B0B01MA2A | Mathematical Analysis 2 | Z,ZK | 6 |
| | rs an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals. | • | ns function |
| | series and power series with application to Taylor and Fourier series. | | |
| B0B01STP | Statistics and Probability | Z,ZK | 5 |
| The aim of the o | course is to introduce students to the fundamentals of probability theory and mathematical statistics, their computational methods as well as the computation of the fundamentals of probability theory and mathematical statistics, their computational methods as well as the computation of the fundamentals of probability theory and mathematical statistics, their computational methods as well as the computation of the fundamentals of probability theory and mathematical statistics, their computational methods as well as the computation of the co | vell as applications | s of these |
| | mathematical tools to practical examples. | | 1 |
| B0B04A21 | English Language A2-1 | Z | |
| D0D04400 | The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic El | | |
| B0B04A22 | English Language A2-2 | Z | 0 |
| | en to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowled | Z | |
| B0B04B11 | English Language B1-1 Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp | _ | oding spoken |
| Codisc objective. L | English. | ansion, anderstan | aling spokeri |
| B0B04B12 | English Language B1-2 | Z | 0 |
| | Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp | ansion; understan | ding spoken |
| | English. | | |
| B0B04B1K | English language B1 - classified assessment | KZ | 0 |
| | verifying of the student's skills of B1 level | | |
| B0B04B21 | English Language B2-1 | Z | 3 |
| | gned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - | | |
| | used on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), nical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria | | |
| academic and tech | / International Study. | te level of English | ioi Liasilius |
| B0B04B22 | English Language B2-2 | Z | 3 |
| | gned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - | _ | _ |
| | used on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), | | - |
| academic and tech | nical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria / International Study. | te level of English | for Erasmus |
| | | Z,ZK | 0 |
| B0B04B2Z | English language B2 - exam | ۷,۷۱۸ | |
| | English language B2 - exam Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at the Czech Technical University. | | n Rules and |
| I) The B2 English E Regulations for Stu | exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Studients at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully com | ly and Examination plete the study pro | ogramme. In |
| I) The B2 English E Regulations for Stu addition, this require | exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Studidents at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully com res the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europe | ly and Examination plete the study pro pean Framework o | ogramme. In of Reference |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (Cl | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully combres the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common EuropeFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 | ly and Examination plete the study pro pean Framework of (Upper-Intermedia | ogramme. In of Reference ate) level is |
| I) The B2 English E Regulations for Stu addition, this requii for Languages (Cl one who can under | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common EuropeFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 retaind the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisations. | ly and Examination plete the study properties pean Framework of (Upper-Intermediation). Can interact w | ogramme. In of Reference ate) level is rith a degree |
| I) The B2 English E Regulations for Stu addition, this requii for Languages (CI one who can under of fluency and spor | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europe EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 estand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation taneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed te | ly and Examination plete the study propens pean Framework of (Upper-Intermediation, Can interact with the control of the control to a wide range | ogramme. In of Reference ate) level is rith a degree e of subjects |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (CI one who can under of fluency and sport and explain a view | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common EuropeFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 retaind the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisations. | ly and Examination plete the study properson framework of (Upper-Intermediation, Can interact with on a wide range approved internation) | ogramme. In of Reference ate) level is with a degree to of subjects ional exam |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (CI one who can under of fluency and sport and explain a view | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europe EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 estand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation taneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed tewpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an | ly and Examination plete the study properson framework of (Upper-Intermediation, Can interact with on a wide range approved internation) | ogramme. In of Reference ate) level is rith a degree e of subjects ional exam |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (CI one who can under of fluency and sport and explain a view | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common EuropeFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 estand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisatint aneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed tewpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are ther | ly and Examination plete the study properson framework of (Upper-Intermediation, Can interact with on a wide range approved internation) | ogramme. In of Reference ate) level is with a degree to of subjects ional exam |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (CI one who can under of fluency and sport and explain a view within the past five B0B16ET1 Aim of this subject | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comes the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europe EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 estand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed the wooint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are ther Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/ Ethic 1 is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ | dy and Examination plete the study properson framework of (Upper-Intermediation, Can interact work on a wide range approved internation exempt from both KZ ations of human line. | ogramme. In If Reference ate) level is iith a degree e of subjects ional exam in the Written 4 fe. Essential |
| I) The B2 English E Regulations for Stu addition, this requir for Languages (CI one who can under of fluency and sport and explain a view within the past five B0B16ET1 Aim of this subject parts of | Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully complete the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europe EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 retained the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation transity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed the wopoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are therefore and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/ Ethic 1 is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ of the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the contents and the original problems of ethics but also to actual questions coming with news and look for the contents at the CTU (Part III), and the Oral Part (Part III), and the Ora | dy and Examination plete the study properson framework of (Upper-Intermediation, Can interact work on a wide range approved internation exempt from both KZ ations of human literaction and answers. | ogramme. In If Reference ate) level is If the degree e of subjects ional exam in the Written 4 fe. Essential |
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| DOD 4 OF II | Di ii | 71/ | |
|---------------------------------------|--|-----------------------|--------------|
| B0B16FIL We deal with the | Philosophy e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos | ZK | 2 |
| we dear with the | philosophical thoughts with recent problems of science, technology, economics and politics. | opriy and connecti | 1011 01 010 |
| B0B16HI1 | History 1 | KZ | 4 |
| B0B16HT1 | History of science and technology 1 | KZ | 4 |
| B0B16HTE | History of technology and economic | ZK | 2 |
| B0B16MPL | Psychology for managers | ZK | 2 |
| B0B16MPS | Psychology | Z,ZK | 4 |
| B0B99PRPA | Procedural Programming | KZ | 4 |
| B1B02FY1 | Physics 1 | Z,ZK | 8 |
| | f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The fire | | |
| | e is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynami and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which the | = | - |
| • | al mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stu | | |
| in this course in the | study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course | is required for the | study of the |
| | consecutive course Physics 2. | T | ı |
| B1B02FY2 | Physics 2 | Z,ZK | 7 |
| · · · · · · · · · · · · · · · · · · · | s 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of the es - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented | | |
| | er in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section | - | |
| | vill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of suc | | |
| com | puter vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec- | tronic devices. | |
| B1B13MVE1 | Materials for Power Electrical Engineering | Z,ZK | 4 |
| · · | I description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercond | | _ |
| | miconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental con | | |
| otaaoni mii moot, i | for thin and thick films and with selected nanomaterials and their applications. | addite jeg, | materiale |
| B1B13PPS | Industrial computer systems | Z,ZK | 4 |
| The subject is focus | sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with ha | rdware for data acc | uisition and |
| - | oftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pro- | _ | - |
| | ck of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial PC and des | | |
| B1B13SSE1 | Solar Systems and Electrochemical Sources izes students with the basic principles of electrochemical sources and photovoltaic cells and systems. At the beginning, the emphasis | Z,ZK | 5 |
| | equivalent circuits and mathematical description. In the next section, the basic types of electrochemical sources and their technical paral | | - |
| Similarly, students b | become familiar with the technology of photovoltaic cells and modules. Another chapter is devoted to the basic applications such as | solar-thermal. At th | e end of the |
| | ourse, students become familiar with economical and technological implications of the combination of solar systems and electrochem | | T |
| B1B13TEP | Electrical engineering technological processes | Z,ZK | 4 |
| _ | sed in electronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundament Discesses. The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass | _ | |
| improgridation pro | presented. | simply tooimologica | |
| B1B13TPR | Technological Project Planning | Z,ZK | 5 |
| | t Management. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational project str | • | • |
| SWOT, PEST a | and 5F. Project logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and | I norms. Human re | sources |
| B1B13VES | management. Funding. Manufacturing of Electrical Components | Z,ZK | 6 |
| | ric components in general. Basic technology in use. Type of components: resistors, potentiometers, capacitors with foil dielectric. Cera | | 1 |
| | Electromechanical devices . Semiconductors, fabrication of vertical and horizontal structures. Packaging. | | |
| B1B13VVZ1 | Manufacturing of Power Devices | Z,ZK | 4 |
| • | oject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main p | | |
| | d rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of powers | | |
| B1B14MIS | ers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and plannin Microprocessors for Power Systems | | . 5 |
| | ics control computer structure, digital signal processor and ALU added features for fast real time calculations. Interrupt system and E | Z,ZK | |
| | impulse signal measurement, fast impulse generation support, inter-computer communication, system and power management, pro | = | |
| systems software | development, programming techniques, software development tools (simulators, emulators, monitors), input signal conditioning circ | uitry, conversion fro | om analog |
| | ocessing, time sampling, amplitude quatization, power electronics control block design and implementation, difference equations an | _ | |
| floating point calcula | ations, debugging methods, program parametrization, guides and rules for implementation and application of power system control of system, scheduler, dispatcher and another features and guides for application | omputers. Real tim | ne operating |
| B1B14TME1 | Engineering mechanics | Z,ZK | 5 |
| | es knowledge of applied mechanics for the industry practice. Analysis of constructional elements and their dimensioning. Kinematics o | | I |
| • | inical systems, mechanic vibrations. Thermodynamics of real gases and vapours, their processes an cycles, basic comparative cycles of | • | = |
| | of hydrodynamics, transport losses in hydraulic systems. | T | T |
| B1B14ZEL1 | Fundamentals of Electrotechnical Engineering | KZ | 4 |
| | ids necessary knowledge of creating technical documentation, including oral and written presentation of technical information. The so aining and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed | | |
| B1B14ZPO | Fundametals of Electric Drives | Z,ZK | 5 |
| | es the basic terms and knowledge in electric drives and in the issues related to this discipline as well. The lectures are focused on the | | _ |
| • | control and also discrete control, and on the characteristics of used controllers in practice. Further, the basic control structures of dri | | - 1 |
| | are explained. | | |
| | | | |

| B1B14ZSP | Electric Machines and Apparatuses Basics | Z,ZK | 5 |
|--|--|--|--|
| The course explains | s the principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functions | and properties of | rotating and |
| non-rotating electri | ic machines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavior | oral and switching | g problems. |
| B1B14ZVE | Power Electronics | Z,ZK | 4 |
| The course focuse | es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introdu | uced to the basic | principles, |
| | properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. | | |
| B1B15EN11 | Power Engineering 1 | Z,ZK | 5 |
| B1B15EN2 | Power Engineering 2 | Z,ZK | 5 |
| B1B15EN3 | Power Engineering 3 | KZ | 4 |
| B1B15EPR1 | Projects in Power Engineering | KZ | 5 |
| B1B15VYA | Computational Applications | KZ | 4 |
| B1B16MME | Macro and Microekonomics | Z,ZK | 5 |
| | I I | | _ |
| | ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, produ Ire, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary po | | |
| pront, market failui | cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. | nicy, labor marke | i, business |
| B1B16UEE1 | Economy of Power Industry | Z,ZK | 5 |
| | | Z,ZK | 5 |
| B1B17EMP | Electromagnetic Field This course gets its students acquinted with principles and applied electromagnetic field theory basics. | Z,ZN | 5 |
| B1B31EOS | Electric circuits | Z,ZK | 6 |
| ロロのコロいっし | | | 0 |
| | | • | ogorioo and |
| The subject describ | bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school | ls of different cate | • |
| The subject describ | bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior | ls of different cate of basic ideal cire | cuit elements |
| The subject describ | bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also be | ls of different cate of basic ideal cire | cuit elements |
| The subject describ form the basis of kno in DC circuits and in | bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also be of the results of the analysis and simulation of electrical circuits by means of software tools. | ls of different cate of basic ideal circ e used for critical | cuit elements assessment |
| The subject described form the basis of known in DC circuits and in B1B34EPS | bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also be of the results of the analysis and simulation of electrical circuits by means of software tools. Elektronics for Heavy-current engeneering | ls of different cate of basic ideal circ e used for critical | assessment 4 |
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