Study plan

Name of study plan: Open Electronic Systems

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page Type of study: unknown full-time

Required credits: 173
Elective courses credits: 7
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: 82

The role of the block: P

Code of the group: BOESEBAP Name of the group: Bachelor Thesis

Requirement credits in the group: In this group you have to gain at least 9 credits (at most 144)

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

Credits in the group: 9
Note on the group:

| 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 |
| AE8B16BAP | Bachelor project | Z | 9 | 7s | Z,L | Р |
| AE8B14BAP | Bachelor Project | Z | 9 | 7s | L | Р |
| AE8B13BAP | Bachelor Project | Z | 9 | 7S | L | Р |
| AE8B33BAP | Bachelor Project | Z | 9 | 7S | L | Р |
| AE8B39BAP | Bachelor Project | Z | 9 | 7S | L | Р |
| AE8B17BAP | Bachelor Project | Z | 9 | 7s | L | Р |
| AE8B31BAP | Bachelor Project | Z | 9 | 7ZP | L | Р |
| AE8B34BAP | Bachelor Project | Z | 9 | 7C | L | Р |
| AE8B35BAP | Bachelor Project | Z | 9 | 7S | L | Р |
| AE8B36BAP | Bachelor Project | Z | 9 | 7s | L | Р |
| AE8B37BAP | Bachelor Project | Z | 9 | 7s | L | Р |
| AE8B38BAP | Bachelor Project | Z | 9 | 0P+7C | L | Р |
| AE8B15BAP | Bachelor's thesis | Z | 9 | 7s | L | Р |
| ABAP9 | Bachelor thesis | Z | 9 | 28s | L | Р |

Characteristics of the courses of this group of Study Plan: Code=BOESEBAP Name=Bachelor Thesis

| AE8B16BAP | Bachelor project | Z | 9 |
|-------------------------|---|---------------------|-----------------|
| AE8B14BAP | Bachelor Project | Z | 9 |
| AE8B13BAP | Bachelor Project | Z | 9 |
| Independent final proje | ct for the Bachelor's degree study program. A student will choose a topic from a range of topics related to his or her branch o | f study, which will | be specified by |
| branch department or | branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final ex | amination. | |
| AE8B33BAP | Bachelor Project | Z | 9 |
| AE8B39BAP | Bachelor Project | Z | 9 |
| AE8B17BAP | Bachelor Project | Z | 9 |

Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination. Bachelor, s projects are oriented into microwave technique, antennas, propagation, optoelectronics, EMC, medical applications.

| AE8B31BAP | Bachelor Project | Z | 9 |
|---------------------------|--|----------------------|-------------------|
| The subject Bachelor P | roject is an independent final project for the Bachelor's degree study programme. A student will choose a topic from a range | of topics related to | his or her field |
| of study, which will be s | pecified by branch department or branch departments. The Bachelor's project will be defended in front of the board of exami | ners for the comp | rehensive final |
| examination. | | | |
| AE8B34BAP | Bachelor Project | Z | 9 |
| Independent final project | t for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branc | h of study, which | will be specified |
| by branch department of | or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final | examination. | |
| AE8B35BAP | Bachelor Project | Z | 9 |
| AE8B36BAP | Bachelor Project | Z | 9 |
| AE8B37BAP | Bachelor Project | Z | 9 |
| Independent final project | ct for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branc | h of study, which | will be specified |
| by branch department of | or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final | l examination. | |
| AE8B38BAP | Bachelor Project | Z | 9 |
| AE8B15BAP | Bachelor's thesis | Z | 9 |
| ABAP9 | Bachelor thesis | Z | 9 |

Code of the group: BOESEP

Name of the group: Compulsory subjects of the programme

Requirement credits in the group: In this group you have to gain 73 credits

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

Credits in the group: 73 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 |
|-----------|---|------------|---------|-------|----------|------|
| AE8B14ADP | Algorithm Development and Programming | Z,ZK | 5 | 2+2c | Z | Р |
| AE8B01OGT | Optimization and Game Theory | Z,ZK | 4 | 3+1s | L | Р |

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

| AE8B14ADP | Algorithm Development and Programming | Z,ZK | 5 |
|--------------------------|---|--------------------|----------------|
| Course objective: Introd | uction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C pro | gramming langua | ge, Syntax and |
| semantics. Basic skills | of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parame | ter passing, array | s, pointers, |
| structures, compilation | and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems | orogramming and | debugging. |
| AE8B01OGT | Optimization and Game Theory | Z.ZK | 4 |

Code of the group: BOESEBBE

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:

| | "P" | | | | | |
|-------|---|------------|---------|---------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| BEEZZ | Basic health and occupational safety regulations Radek Havlíček, Vladimír Kůla, Ivana Nová Radek Havlíček Vladimír Kůla (Gar.) | Z | 0 | 2BP+2BC | Z | Р |
| BEEZB | Safety in Electrical Engineering for a bachelor's degree Radek Havlíček, Vladimír Kůla, Ivana Nová Radek Havlíček Vladimír Kůla (Gar.) | Z | 0 | 2BP+2BC | Z,L | Р |

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

| BEEZZ | Basic health and occupational safety regulations | Z | 0 |
|--------------------------|---|------------------------|-------------------|
| The guidelines were wo | rked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Cze | ch Technical Univ | ersity in Prague, |
| which was provided by t | he Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of | f Health and Occu | pational Safety |
| regulations forms an int | egral and permanent part of qualification requirements. This program is obligatory. | | |
| BEEZB | Safety in Electrical Engineering for a bachelor's degree | Z | 0 |
| The purpose of the safe | ty course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from oper | ation of it. This intr | 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 equip | oment. |

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 91

The role of the block: PO

Code of the group: BOESEPO

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 91 credits

Requirement courses in the group: In this group you have to complete at least 18 courses

Credits in the group: 91 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 |
|-----------|---|------------|---------|---------|----------|------|
| AE8B31AAC | Analog and Acitve Circuits | Z,ZK | 6 | 3P+2S | Z | РО |
| AE8B31CIR | Circuit Theory | Z,ZK | 8 | 4P+2S | L | PO |
| AE8B32DNT | Data Networks Theory | Z,ZK | 5 | 3P + 1L | Z | PO |
| AE8B37DCM | Digital Communications | Z,ZK | 5 | 4P+0C | Z | PO |
| AE8B37DIT | Digital Design | Z,ZK | 5 | 2P+2C | L | РО |
| AE8B32DSP | Digital Signal Processing | Z,ZK | 5 | 3P + 1L | Z | PO |
| AE8B32DCL | Digital Signal Processing and Communication Laboratory | Z | 2 | 0P + 2C | Z | PO |
| AE8B17ELD | Electrodynamics | Z,ZK | 5 | 3P+1S | L | PO |
| AE8B17EMT | Electromagnetic Field Theory | Z,ZK | 8 | 4P+2S | Z | РО |
| AE8B34EOD | Electronic and Optoelectronic Devices | Z,ZK | 6 | 3P+2L | Z | PO |
| AE8B38EME | Electronic Measurements | KZ | 4 | 2P+1L | L | PO |
| AE8B31ELE | Elements of Electronics | KZ | 4 | 2P | L | РО |
| AE8B35FCS | Feed-Back Control Systems | Z,ZK | 6 | 4P+2L | L | PO |
| AE8B32IES | Introduction to Electronic Systems | Z | 2 | 0P + 2L | Z | PO |
| AE8B37SAS | Signals and Systems | Z,ZK | 8 | 4P+2C | L | PO |
| AE8B34SST | Solid State Physics | Z,ZK | 4 | 3P+1L | L | PO |
| AE8B37SSP | Statistical Signal Processing | Z,ZK | 6 | 4P+0C | L | РО |

| AE8B31AAC | Analog and Acitve Circuits | Z,ZK | 6 |
|-------------------------|---|---------------------------|------------------|
| The subject AE8B31A | NC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function | n blocks of electronic | systems based |
| on basic semiconduc | or electronic components operating in linear and non-linear modes. | | |
| AE8B31CIR | Circuit Theory | Z,ZK | 8 |
| The subject AE8B310 | CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic e | ffects, an electric circ | uit is presented |
| as a special quasistat | ionary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling a | II kinds of actual ener | gy interactions |
| The subject is specific | cally oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and | d analysis methods of | linear circuits |
| working in steady and | transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? c | haracterization is app | lied on circuit |
| transfer properties an | alysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems theory. | | |
| AE8B32DNT | Data Networks Theory | Z,ZK | 5 |
| AE8B37DCM | Digital Communications | Z,ZK | 5 |
| The course provides | undamentals of digital communications theory: modulation, classical coding, channel models, and basic principles of decodi | ng. The exposition is | systematically |
| built along the theore | ical lines which allow to reveal all inner connections and principles. This allows students to develop the knowledge and use i | t in an active way in a | design and |
| construction of the co | mmunication systems. The course provides a necessary fundamental background for subsequent more advanced communi | cations theory course | S. |
| AE8B37DIT | Digital Design | Z,ZK | 5 |
| The goal of this cours | e is to introduce the philosophy of digital circuits' design, to provide formal description of combinational and sequential logica | circuits, their function | nal blocks. Both |
| mathematical and fun | ctional description, as well as minimization algorithms for output and transient functions of digital components and circuits is | presented. Karnaugh | n maps, latch |
| elements, finite-state | Mealy and Moore machines are the essential part of the content. The subject matter discussed will be tested on the typical of | lesign of digital circuit | ts. |
| AE8B32DSP | Digital Signal Processing | Z,ZK | 5 |
| This subject is focuse | d upon basics in the digital signal processing, systems and methods for digital signal processing. | | |
| AE8B32DCL | Digital Signal Processing and Communication Laboratory | Z | 2 |
| This is a shared pract | ical laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications | (B-DCM) and Data N | Network Theory |
| (B-DNT) courses. It d | emonstrates how these areas together allow designing a complex functional system. During the course, students will design | a set of building block | ks based on |
| individual pieces of k | nowledge from the all above stated courses allowing at the end to build complex demonstration signal processing and comm | unication systems. Th | e laboratory |
| uses a computer base | d simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrate: | s how various CAD an | d mathematica |
| SW tools can be used | I in designing the system. | | |
| AE8B17ELD | Electrodynamics | Z,ZK | 5 |
| The course AEB17EL | D (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decom | position of electroma | gnetic field int |
| nlanewayee introduc | es radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The the | ory of wave guides ar | nd transmissio |
| pianewaves, introduc | tadation of waves and galace statem anough the interaction of clost emagnetic waves with material beartaines. The the | ory or mare galace as | |
| • | ne course ends with wave scattering. The knowledge gained in this course is needed for number of specialized master course | | |
| • | | | 8 |

Students get acquainted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides student through electrostatics, magnetostatics, introduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained in this course are needed for

the subsequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialized master courses.

AE8B34EOD Electronic and Optoelectronic Devices

This course introduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation, device structures and characteristics are explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are examined. In seminars and labs, students are introduced to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of electron devices in electronic systems is then analyzed using the PSpice simulator.

AE8B38EME **Electronic Measurements** ΚZ

The course is focused to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in electronics, telecommunications and radio communications

AE8B31ELE Elements of Electronics

The subject AE8B31ELE (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementary basis of electrical and electronic engineering, describes and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instance AE8B31CIR (B-CIR), AE8B31DIT (B-DIT), AE8B31EMT (B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical methods adequate to the 2nd semester of the bachelor study stage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory - signal and system theory - digital and microprocessor technique.

AE8B35FCS Feed-Back Control Systems Z.ZK

Foundation course of automatic control. Introduction to basic concepts and properties of dynamic systems of physical, engineering, biological, economics, robotics and informatics nature. Basic principles of feedback and its use as a tool for altering the behavior of systems and managing uncertainty. Classical and modern methods for analysis and design of automatic control systems. Students specialized in systems and control will build on these ideas and knowledge in the advanced courses to follow. Students of other branches and programs will find out that control is a inspiring, ubiquitous and entertaining field worth of a future cooperation.

Introduction to Electronic Systems

This is a motivation subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students have a choice from this offer based on their pre-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The next goal is to get an idea about the scope of the OES programme.

AE8B37SAS Signals and Systems Z,ZK

Continuous and discrete time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analog modulations with their noise conditions. Fundamental course for further study focusing on communication, measurement and signal processing. AE8B34SST Solid State Physics

The subject is aimed on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electronics, esp. about semiconductors.

Z.ZK

AE8B37SSP Statistical Signal Processing Z.ZK

The course provides fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and adaptive filtering. The statistical signal processing is a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation, measurement and experiment evaluation, etc.

Name of the block: Elective courses

Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BEJK

Name of the group: Language courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

| Note on the g | , | | | | | |
|---------------|--|------------|---------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| A0B04GA | Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04KA | English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04OA | Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | ٧ |
| A0B04C2Z | Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z | ٧ |
| A0B04C2L | Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | L | ٧ |
| A0B04CIN | Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04KF1 | French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04KF2 | French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04F1 | French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | ٧ |
| A0B04F2 | French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04F3 | French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04JAP | Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |

| A0B04GN | German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
|--------------------|---|-----------------|--------------|--------------|----------------|-------------|
| A0B04KN | German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04N1 | German language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04N2 | German language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04N3 | German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04ON | Professional German Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04CAE1 | Certificate of Advanced English CAE 1 Petra Juna Jennings | Z | 2 | 2C | Z,L | V |
| A0B04CAE2 | Certificate of Advanced English CAE 2 Pavla Péterová Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04CAE3 | Certificate of Advanced English CAE 3 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04FCE1 | FCE 1 Petra Juna Jennings | Z | 2 | 2C | * | V |
| A0B04FCE2 | FCE 2 Petra Juna Jennings | Z | 2 | 2C | * | V |
| A0B04FCE4 | FCE4 | Z | 2 | 2C | Z,L | V |
| A0B04FCE3 | FCE 3 Petra Juna Jennings | Z | 2 | 2C | Z,L | V |
| A0B04PZP | Preparation for stay in Germany Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04RET | Rhetoric Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | Z,L | V |
| A0B04KR | Russian conversation | Z | 2 | 2C | Z,L | V |
| A0B04KR2 | Russian conversation 2 | Z | 2 | 2C | * | V |
| A0B04R1 | Russian language 1 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04R2 | Russian language 2 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04R3 | Russian language 3 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04R4 | Russian language 3 Jitka Pinková Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04KS1 | Spanish conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04KS2 | Spanish conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04S1 | Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04S2 | Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04S3 | Spanish language 3 Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04S4 | Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | V |
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 | 2C | L | V |
| Characteristics of | the courses of this group of Study Plan: Code=BEJK Name=Lang | guage course | s | | | |
| A0B04GA | | | _ | | Z | 2 |
| | to extend and complement grammatical patterns covered in other English courses that a | | -time studer | nts. The cou | rse is meant r | nainly as a |
| | who have not yet passed the B2 examination and are interested in further study and addi | uonai practice. | | | Z | 2 |
| A0B04KA | English Conversation 2 | | | 1 | _ | _ |

| A0B04GA | | | Z | 2 |
|--|---|------------------------------------|---------------|------------------|
| The aim of this cou | urse is to extend and complement grammatical patterns covered in other English courses that are intend | led for full-time students. The co | urse is mea | int mainly as a |
| supplement for stud | udents who have not yet passed the B2 examination and are interested in further study and additional pr | actice. | | |
| A0B04KA | English Conversation 2 | | Z | 2 |
| The course is design | igned for students who want to develop their communication skills. Students will be given the opportunity | to use the vocabulary they alre | ady know, a | s well as learn |
| new words and phr | arases, to communicate on a variety of topics and themes. This course is not designed for beginners. | | | |
| A0B04OA | Technical English Course | | Z | 2 |
| This course is design | igned for students who have successfully passed the B2 Exam or have met the exam requirement. Its ma | in objective is to prepare studen | ts to be able | to communicat |
| about technical sub | bject matter in English in a variety of formats. This will be practiced by examining the structure and style o | of writing in formal English and p | racticing via | 3 different type |
| of texts: an abstract | ct, a short explanatory article, and a research article. | | | |
| or toxtor air abourao | , , , , , , , , , , | | | |
| A0B04C2Z | Czech language 2 | | Z | 2 |
| A0B04C2Z | | the needs of technical universi | _ | 2 |
| A0B04C2Z | Czech language 2 | the needs of technical universi | _ | 2 |
| A0B04C2Z The course is aime A0B04C2L | Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet | | ty students | · |
| A0B04C2Z The course is aime A0B04C2L | Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 | | ty students | · |
| A0B04C2Z The course is aime A0B04C2L The course is aime | Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 | | ty students | 2 |
| A0B04C2Z The course is aime A0B04C2L The course is aime A0B04CIN | Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet | | ty students | 2 |
| A0B04C2Z The course is aime A0B04C2L The course is aime A0B04CIN A0B04KF1 | Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet French conversation 1 | | ty students | 2 2 2 |

| A0B04F3 | French Language 3 | Z | 2 |
|---|--|--|--|
| A0B04JAP | Japanese | Z | 2 |
| A0B04GN | German Grammar | Z | 2 |
| A0B04KN | German Conversation | Z | 2 |
| A0B04N1 | German language 1 | Z | 2 |
| A0B04N2 | German language 2 | Z | 2 |
| A0B04N3 | German language 3 | Z | 2 |
| A0B04ON | Professional German | Z | 2 |
| A0B04CAE1 | Certificate of Advanced English CAE 1 | Z | 2 |
| you to improve your late ability to use the texts of various types as well as by employed for obtaining credit to A0B04CAE2 | e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be . CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countritake CAE at British Council. Certificate of Advanced English CAE 2 | sed on realistic tas able to understan es taught and ass es. It is possible b | sks and indicates d and produce essed in English ut not necessary |
| you to improve your late the ability to use the texts of various types as well as by employe | e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be . CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countritake CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. | sed on realistic tas able to understan es taught and ass | sks and indicates d and produce essed in English |
| A0B04CAE3 | Certificate of Advanced English CAE 3 | Z | 2 |
| | e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers | 1 | l |
| | anguage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. | , | |
| A0B04FCE1 | FCE 1 | Z | 2 |
| The course is aimed | for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu | ropean Language | Frame. The |
| course focuses on im B2 ELF. | proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtai | ining the required | skills needed for |
| A0B04FCE2 | FCE 2 | Z | 2 |
| The course is aimed | for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu | ropean Language | Frame. The |
| course focuses on im B2 ELF. | proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain | ning the required | skills needed fo |
| A0B04FCE4 | FCE4 | Z | 2 |
| | reference in the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu | _ | _ |
| | proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain | | |
| A0B04FCE3 | FCE 3 | Z | 2 |
| | for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co | I | l |
| | ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic | - | |
| obtaining the require | d skills needed for B2 CEFR. | | _ |
| A0B04PZP | Preparation for stay in Germany | Z | 2 |
| A0B04RET | Rhetoric | Z | 2 |
| | subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of | | |
| bachelors. This subje | ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psycho | ological barriers fo | r public speakin |
| so that the students o | an create a good image. The course "Retorika" provides an introduction to this subject. | | |
| A0B04KR | Russian conversation | Z | 2 |
| A0B04KR2 | Russian conversation 2 | Z | 2 |
| A0B04R1 | Russian language 1 | Z | 2 |
| A0B04R2 | Russian language 2 | Z | 2 |
| A0B04R3 | Russian language 3 | Z | 2 |
| A0B04R4 | Russian language 3 | Z | 2 |
| A0B04KS1 | Spanish conversation 1 | Z | 2 |
| A0B04KS2 | Spanish conversation 2 | Z | 2 |
| A0B04S1 | Spanish language 1 | Z | 2 |
| A0B04S2 | Spanish language 2 | Z | 2 |
| A0B04S3 | Spanish language 3 | Z | 2 |
| , | Spanior language o | | |

Code of the group: BETVK

A0B04S4

A0B04CA

Name of the group: Physical Courses

Spanish Language 4

Technical English for Pre-Intermediate

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0 Note on the group:

Z

2

| 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 |
|-----------|---|------------|---------|-------|----------|------|
| A0B03TVKL | Physical Education Course | Z | 1 | 7dní | L | V |
| A0B03TVKZ | Physical Education Course | Z | 1 | 7dní | Z | V |

Characteristics of the courses of this group of Study Plan: Code=BETVK Name=Physical Courses

Physical Education Course

In the bachelor stage of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exercise skills. The summer course - games course - focuses on improving the knowledge and skills on multigame level - courses of hiking, cycling, canoeing and combined courses - special courses - swimming, windsurfing

A0B03TVKZ **Physical Education Course**

In the bachelor stage of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exercise skills. The winter course cross-country skiing, downhill skiing, snowboarding training.

Code of the group: BETV

Name of the group: Phisical Training 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 |
|----------|---|------------|---------|-------|----------|------|
| 03TV | Physical Education | Z | 1 | 2s | Z,L | V |
| A0B03TV3 | Physical Education 3 | Z | 1 | 2s | Z | V |
| A0B03TV4 | Physical Education 4 | Z | 1 | 2s | L | V |
| A0B03TV5 | Physical Education 5 | Z | 1 | 2s | Z | V |
| A0B03TV6 | Physical Education 6 | Z | 1 | 2s | L | V |

Characteristics of the courses of this group of Study Plan: Code=BETV Name=Phisical Training

Physical Education Ζ The student can be enlisted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at F.E.E.) after finishing the optional

P.E. subject. The syllabi of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303

A0B03TV3 Physical Education 3

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

Physical Education 4

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

A0B03TV5 Physical Education 5

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

Physical Education 6

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|----------------------|--|------------------------|--------------|
| 03TV | Physical Education | Z | 1 |
| The student can be | enlisted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at F.E. subject. The syllabi of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303 | .E.) after finishing t | the optional |
| A0B03TV3 | Physical Education 3 | Z | 1 |
| _ | the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu | - | - |
| _ | ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec | | |
| 1 | with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling Adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl | | |
| I | spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described their own interest and available capacity. | | - |
| A0B03TV4 | Physical Education 4 | Z | 1 |
| The main goal o | the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu | cation as well as g | jain basic |
| _ | ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec | | |
| 1 | with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling Adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl | | |
| _ | spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described | | - |
| | their own interest and available capacity. | · · | |
| A0B03TV5 | Physical Education 5 | Z | 1 |
| _ | the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu | _ | - |
| _ | ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling | | |
| 1 ' | adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl | | |
| | spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described | | - |
| | their own interest and available capacity. | | |
| A0B03TV6 | Physical Education 6 | Z | 1 |
| | the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu | | |
| 1 | ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling | | |
| 1 ' | adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl | | |
| | spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described | | - |
| | their own interest and available capacity. | | |
| A0B03TVKL | Physical Education Course | Z | 1 |
| | age of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exerci | | |
| - games course | - focuses on improving the knowledge and skills on multigame level - courses of hiking, cycling, canoeing and combined courses - s windsurfing | pecial courses - sw | √ımmıng, |
| A0B03TVKZ | Physical Education Course | 7 | 1 |
| | age of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exerc | ise skills. The winte | 1 - |
| | cross-country skiing, downhill skiing, snowboarding training. | | |
| A0B04C2L | Czech language 2 | Z | 2 |
| | e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic | | T |
| A0B04C2Z | Czech language 2 | Z | 2 |
| | e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic | | |
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 |
| A0B04CAE1 | Certificate of Advanced English CAE 1 rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni | Z Z | 2 |
| | Ise is to prepare to Certificate of Advanced English the second highest level Cambridge ESOE exam. The course CAET covers unit language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based | | |
| | ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able | | |
| texts of various typ | es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to | aught and assesse | d in English |
| as well as by emplo | overs who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I | t is possible but no | t necessary |
| 40001015 | for obtaining credit to take CAE at British Council. | | |
| A0B04CAE2 | Certificate of Advanced English CAE 2 | Z Z | 2 |
| | rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni I language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based | | |
| | ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able. | | |
| _ | es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to | | - |
| as well as by emplo | byers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semeste | = | t necessary |
| A0B04CAE3 | Certificate of Advanced English CAE 3 | Z | 2 |
| The aim of the cou | se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit | | r CAE helps |
| | you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of col | | |
| A0B04CIN | | Z | 2 |
| A0B04F1 | French language 1 | Z | 2 |
| A0B04F2 | French language 2 | Z | 2 |
| A0B04F3 | French Language 3 | Z | 2 |

| A0B04FCE1 | FCE 1 | Z | 2 |
|---------------------|---|-------------------------|--------------|
| | ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro | | |
| course focuses on | improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining | the required skills | needed for |
| A0B04FCE2 | B2 ELF. FCE 2 | Z | 2 |
| | FOE 2 ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro | - | 1 |
| | improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining | | |
| | B2 ELF. | · | |
| A0B04FCE3 | FCE 3 | Z | 2 |
| | ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Comm | • | II. |
| | guages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - a obtaining the required skills needed for B2 CEFR. | and is submitted to | the goal of |
| A0B04FCE4 | FCE4 | . Z | 2 |
| | ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF. | | II. |
| A0B04GA | | Z | 2 |
| The aim of this co | urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The | | nainly as a |
| | supplement for students who have not yet passed the B2 examination and are interested in further study and additional practi | | |
| A0B04GN | German Grammar | Z | 2 |
| A0B04JAP | Japanese | Z | 2 |
| A0B04KA | English Conversation 2 | Z | 2 |
| The course is des | igned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners. | iready know, as w | eli as learn |
| A0B04KF1 | French conversation 1 | Z | 2 |
| A0B04KF2 | French conversation 1 | Z | 2 |
| A0B04KN | German Conversation | Z | 2 |
| A0B04KR | Russian conversation | Z | 2 |
| A0B04KR2 | Russian conversation 2 | Z | 2 |
| A0B04KS1 | Spanish conversation 1 | Z | 2 |
| A0B04KS2 | Spanish conversation 2 | Z | 2 |
| A0B04N1 | German language 1 | Z | 2 |
| A0B04N2 | German language 2 | Z | 2 |
| A0B04N3 | German language 3 | Z | 2 |
| A0B04OA | Technical English Course | Z | 2 |
| | gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude oject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and | | II. |
| about technical sut | of texts: an abstract, a short explanatory article, and a research article. | practicing via 3 dii | iereni types |
| A0B04ON | Professional German | Z | 2 |
| A0B04PZP | Preparation for stay in Germany | Z | 2 |
| A0B04R1 | Russian language 1 | Z | 2 |
| A0B04R2 | Russian language 2 | Z | 2 |
| A0B04R3 | Russian language 3 | Z | 2 |
| A0B04R4 | Russian language 3 | Z | 2 |
| A0B04RET | Rhetoric | Z | 2 |
| The objective of t | he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the | e prospective engi | neers and |
| bachelors. This sub | oject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologic | cal barriers for pub | lic speaking |
| A0D0404 | so that the students can create a good image. The course "Retorika" provides an introduction to this subject. | 7 | |
| A0B04S1 A0B04S2 | Spanish language 1 | Z | 2 |
| | Spanish language 2 | Z | 2 |
| A0B04S3 | Spanish Language 3 | Z | 2 |
| A0B04S4 | Spanish Language 4 | Z | 2 |
| ABAP9 | Bachelor thesis | Z 7// | 9 |
| AE8B01OGT | Optimization and Game Theory | Z,ZK Z | 9 |
| AE8B13BAP | Bachelor Project project for the Bachelor's degree study program. A student will choose a topic from a range of topics related to his or her branch of stu | _ | |
| | department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive | - | |
| AE8B14ADP | Algorithm Development and Programming | Z,ZK | 5 |
| | Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C program | | |
| | c skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter | | |
| | oilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr | | |
| AE8B14BAP | Bachelor Project | Z | 9 |
| AE8B15BAP | Bachelor's thesis | Z | 9 |
| AE8B16BAP | Bachelor project | Z | 9 |
| AE8B17BAP | Bachelor Project Project for the Bachelor's degree study programme. A student will shoose a topic from a range of topics related to his or her branch of | Z study which will b | 9 |
| | oroject for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of Ient or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final exa | | |
| 2 september | are oriented into microwave technique, antennas, propagation, optoelectronics, EMC, medical applications. | | |
| | | | |

| AE8B17ELD | | | |
|--|--|--|--|
| | Electrodynamics | Z,ZK | 5 |
| | ELD (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition access radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The theory of | _ | |
| | es is also shown. The course ends with wave scattering. The knowledge gained in this course is needed for number of specialized ma | - | 141131111331011 |
| AE8B17EMT | Electromagnetic Field Theory | Z,ZK | 8 |
| | ainted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides s | | ctrostatics, |
| - | troduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained | | |
| | sequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize | | |
| AE8B31AAC | Analog and Acitve Circuits | Z,ZK | 6 |
| ne subject AE8B3 | 1AAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block on basic semiconductor electronic components operating in linear and non-linear modes. | s of electronic sys | tems based |
| AE8B31BAP | Bachelor Project | Z | 9 |
| l l | lor Project is an independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of to | | - |
| = | be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiner examination. | • | |
| AE8B31CIR | Circuit Theory | Z,ZK | 8 |
| | 1CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, | , | |
| s a special quasist | tationary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds | s of actual energy i | interactions. |
| , , | cifically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and anal | , | |
| vorking in steady a | and transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? charac transfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems | | d on circuit |
| AE8B31ELE | Elements of Electronics | KZ | 4 |
| • | HELE (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementary ba | | |
| | pes and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instance AE | | |
| | MT (B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical methods a dy stage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory - sigr | | |
| ille bachelor stu | and microprocessor technique. | iai and system the | ory - digital |
| AE8B32DCL | Digital Signal Processing and Communication Laboratory | Z | 2 |
| l l | actical laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications (B-DC | | 1 |
| | It demonstrates how these areas together allow designing a complex functional system. During the course, students will design a se | • | _ |
| individual pieces o | of knowledge from the all above stated courses allowing at the end to build complex demonstration signal processing and communication | ation systems. The | laboratory |
| ses a computer ba | sed simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrates how verify the system functional transfer and its performance. | various CAD and m | nathematical |
| . = - = - = - | SW tools can be used in designing the system. | | _ |
| AE8B32DNT | Data Networks Theory | Z,ZK | 5 |
| | Digital Cignal Processing | | |
| AE8B32DSP | Digital Signal Processing | Z,ZK | 5 |
| AE8B32DSP | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. | | - |
| AE8B32IES | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems | Z | 2 |
| AE8B32IES This is a motivatio | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems n subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students | Z have a choice from | 2 m this offer |
| AE8B32IES This is a motivatio | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The | Z have a choice from | 2 m this offer |
| AE8B32IES This is a motivatio based on their pre | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. | Z have a choice from the next goal is to g | 2 m this offer et an idea |
| AE8B32IES This is a motivatio based on their pre | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Bachelor Project | Z have a choice from the next goal is to g | 2 m this offer et an idea |
| AE8B32IES This is a motivatio based on their pre AE8B33BAP AE8B34BAP | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. | Z have a choice from the next goal is to goal is goal is to goal is goal i | 2 m this offer et an idea 9 |
| AE8B32IES This is a motivatio based on their pre AE8B33BAP AE8B34BAP ndependent final p | This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Bachelor Project Bachelor Project | Z have a choice from the next goal is to goal is goal i | 2 m this offer et an idea 9 9 oe specified |
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| AE8B37SAS | Signals and Systems | Z,ZK | 8 | | |
|---|---|-----------------------|----------------|--|--|
| Continuous and discrete time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analog modulations with their noise | | | | | |
| conditions. Fundamental course for further study focusing on communication, measurement and signal processing. | | | | | |
| AE8B37SSP | Statistical Signal Processing | Z,ZK | 6 | | |
| The course provide | es fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and a | daptive filtering. Th | ne statistical | | |
| signal processing is | s a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation, | measurement and | dexperiment | | |
| | evaluation, etc. | | | | |
| AE8B38BAP | Bachelor Project | Z | 9 | | |
| AE8B38EME | Electronic Measurements | KZ | 4 | | |
| The course is focus | ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e | electronics, telecon | nmunications | | |
| | and radio communications. | | | | |
| AE8B39BAP | Bachelor Project | Z | 9 | | |
| BEEZB | Safety in Electrical Engineering for a bachelor's degree | Z | 0 | | |
| The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course | | | | | |
| contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment. | | | | | |
| BEEZZ | 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. | | | | | |

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-12-07, time 07:05.