

Study plan

Name of study plan: Otev ené elektronické systémy - Vysokofrekven ní a digitální technika

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: 74

Elective courses credits: 46

Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 25

The role of the block: P

Code of the group: MDIP

Name of the group: Diploma Thesis

Requirement credits in the group: In this group you have to gain at least 25 credits (at most 400)

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

Credits in the group: 25

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) <i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|--------|----------|------|
| A0M13DIP | Diploma Thesis | Z | 25 | 36S | L | P |
| A0M14DIP | Diploma Project | Z | 25 | | L | P |
| A0M15DIP | Master's thesis | Z | 25 | 36s | L | P |
| A0M16DIP | Diploma thesis | Z | 25 | 36s | L,Z | P |
| A0M17DIP | Diploma Thesis | Z | 25 | 36s | L | P |
| A0M31DIP | Diploma Thesis | Z | 25 | | L | P |
| A0M33DIP | Diploma Thesis | Z | 25 | 36S | L | P |
| A0M34DIP | Diploma Thesis | Z | 25 | 36C | L | P |
| A0M35DIP | Diploma Thesis | Z | 25 | 36S | L | P |
| A0M37DIP | Diploma Thesis | Z | 25 | 36s | L | P |
| A0M38DIP | Diploma Thesis | Z | 25 | 0P+36C | L | P |
| A0M39DIP | Master Thesis | Z | 25 | | L | P |
| A0M36DIP | Diploma Thesis | Z | 25 | 14s | L,Z | P |
| ADIP25 | Diploma Thesis | Z | 25 | 36s | L | P |

Characteristics of the courses of this group of Study Plan: Code=MDIP Name=Diploma Thesis

| | | | |
|--|-----------------|---|----|
| A0M13DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master's degree study program. 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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M14DIP | Diploma Project | Z | 25 |
| A0M15DIP | Master's thesis | Z | 25 |
| A0M16DIP | Diploma thesis | Z | 25 |
| A0M17DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. Diploma projects deals with microwave technique, antennas, propagation, optical communications, EMC, and medical applications. | | | |
| A0M31DIP | Diploma Thesis | Z | 25 |

| | | | |
|---|----------------|---|----|
| A0M33DIP | Diploma Thesis | Z | 25 |
| A0M34DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M35DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M37DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M38DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M39DIP | Master Thesis | Z | 25 |
| A0M36DIP | Diploma Thesis | Z | 25 |
| ADIP25 | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 45

The role of the block: PO

Code of the group: MOESPO2

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 45 credits

Requirement courses in the group: In this group you have to complete at least 9 courses

Credits in the group: 45

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) <i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| A8M17AEC | Antennas and EMC | Z,ZK | 5 | 3P+1L | L | PO |
| A8M37ART | Architectures of Rx/Tx Systems | Z,ZK | 5 | 4P+0C | Z | PO |
| A8M17WCP | Wireless Channels&Propagation | Z,ZK | 5 | 4P+0C | Z | PO |
| A8M37CAD | CAD and Numerical Methods in RF Engineering | KZ | 3 | 2P+0C | L | PO |
| A8M37RML | Radio Systems Measurement Lab | Z | 5 | 0P+4L | Z | PO |
| A8M17ROL | RF and Optical Engineering Lab | Z | 5 | 0P+4L | Z | PO |
| A8M37MAM | Microprocessors&Microcomputers | Z,ZK | 7 | 4P+2C | Z | PO |
| A8M17OTT | Optical&THz Techniques | Z,ZK | 3 | 2P+0L | Z | PO |
| A8M17RFB | RF Blocks Technology | Z,ZK | 7 | 6P+0L | Z | PO |

Characteristics of the courses of this group of Study Plan: Code=MOESPO2 Name=Compulsory subjects of the branch

| | | | |
|---|---|------|---|
| A8M17AEC | Antennas and EMC | Z,ZK | 5 |
| A8M37ART | Architectures of Rx/Tx Systems | Z,ZK | 5 |
| A8M17WCP | Wireless Channels&Propagation | Z,ZK | 5 |
| The aim of the course is to provide deep knowledge of the wireless propagation channel in real environments for the planning of terrestrial and satellite wireless links. It will include a theoretical background for the radiowave propagation in the atmosphere of the Earth as well as design procedures recommended by ITU-R for selected applications, such as both terrestrial and satellite, fixed and mobile links in various frequency bands. | | | |
| A8M37CAD | CAD and Numerical Methods in RF Engineering | KZ | 3 |
| A8M37RML | Radio Systems Measurement Lab | Z | 5 |
| A8M17ROL | RF and Optical Engineering Lab | Z | 5 |
| A8M37MAM | Microprocessors&Microcomputers | Z,ZK | 7 |
| The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect external circuit to the processor bus, and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C language and combination of both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of necessary peripherals and software design. | | | |
| A8M17OTT | Optical&THz Techniques | Z,ZK | 3 |
| A8M17RFB | RF Blocks Technology | Z,ZK | 7 |

Name of the block: Elective courses

Minimal number of credits of the block: 4

The role of the block: V

Code of the group: MOESH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 20)

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

Credits in the group: 4

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) <i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| B0M16FI2 | Philosophy 2 | Z,ZK | 4 | 2P+2S | L | v |
| B0M16HT2 | History of science and technology 2 | Z,ZK | 4 | 2P+2S | L | v |
| B0M16HSD | History of economy and social studies | Z,ZK | 4 | 2P+2S | L | v |
| B0M16MPS | Psychology | Z,ZK | 4 | 2P+2S | Z,L | v |
| B0M16TE1 | Theology | Z,ZK | 4 | 2P+2S | L | v |

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

| | | | |
|---|---------------------------------------|------|---|
| B0M16FI2 | Philosophy 2 | Z,ZK | 4 |
| The course is oriented on the transdisciplinary aspects of philosophy, informatics, physics, mathematics and biology. | | | |
| B0M16HT2 | History of science and technology 2 | Z,ZK | 4 |
| This subject traces historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate students' interest in the history and traditions of the subject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life and the influence of technical engineers | | | |
| B0M16HSD | History of economy and social studies | Z,ZK | 4 |
| This subject deals with the history of the European and Czech society in the 19th - 21st centuries. It follows the forming of the European and Czech political representation, its aims and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical groups. | | | |
| B0M16MPS | Psychology | Z,ZK | 4 |
| B0M16TE1 | Theology | Z,ZK | 4 |
| This subject provides to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the basic theologic disciplines are gone through. The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who want to get know Christianity - religion from which grows our civilization up. | | | |

Code of the group: MJK

Name of the group: 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) <i>Tutors, authors and guarantors (gar.)</i> | 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 | v |
| AE0B04C0 | Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.) | Z | 2 | 2C | * | v |
| 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 | * | v |
| 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 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04KN | German Conversation <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04KN2 | German conversation 2 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N1 | German language 1 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N2 | German language 2 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N3 | German language 3 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04ON | Professional German <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE1 | Certificate of Advanced English CAE 1 <i>Petra Juna Jennings Pavla Péterová (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE2 | Certificate of Advanced English CAE 2 <i>Pavla Péterová Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE3 | Certificate of Advanced English CAE 3 <i>Petra Juna Jennings, Pavla Péterová Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE4 | Certificate of Advanced English 4 <i>Pavla Péterová</i> | Z | | 2C | Z,L | v |
| A0B04FCE1 | FCE 1 <i>Petra Juna Jennings</i> | Z | 2 | 2C | * | v |
| A0B04FCE2 | FCE 2 <i>Petra Juna Jennings</i> | Z | 2 | 2C | * | v |
| A0B04FCE4 | FCE4 | Z | 2 | 2C | Z,L | v |
| A0B04FCE3 | FCE 3 <i>Petra Juna Jennings</i> | Z | 2 | 2C | Z,L | v |
| A0B04PZP | Preparation for stay in Germany <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04RET | Rhetoric <i>Jitka Pinková Petra Juna Jennings (Gar.)</i> | 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 <i>Jitka Pinková Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R2 | Russian language 2 <i>Jitka Pinková Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R3 | Russian language 3 <i>Jitka Pinková</i> | Z | 2 | 2C | * | v |
| A0B04R4 | Russian language 3 | Z | 2 | 2C | * | v |
| A0B04KS1 | Spanish conversation 1 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04KS2 | Spanish conversation 2 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S1 | Spanish language 1 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S2 | Spanish language 2 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S3 | Spanish language 3 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S4 | Spanish Language 4 <i>Petra Juna Jennings Petra Juna Jennings (Gar.)</i> | 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=MJK Name=Language courses

| | | | |
|--|--------------------------|---|---|
| A0B04GA | | Z | 2 |
| The aim of this course is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The course is meant mainly as a supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice. | | | |
| A0B04KA | English Conversation 2 | Z | 2 |
| The course is designed for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they already know, as well as learn new words and phrases, 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 designed for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare students to be able to communicate about technical subject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and practicing via 3 different types of texts: an abstract, a short explanatory article, and a research article. | | | |
| AE0B04C0 | Czech Language 0 | Z | 2 |
| The course is aimed towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the course is to give the students first hand information about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases needed for everyday communication during their stay in the Czech Republic. | | | |
| A0B04CIN | | Z | 2 |

| | | | |
|--|--|---|---|
| A0B04KF1 | French conversation 1 | Z | 2 |
| A0B04KF2 | French conversation 1 | Z | 2 |
| A0B04F1 | French language 1 | Z | 2 |
| A0B04F2 | French language 2 | Z | 2 |
| A0B04F3 | French Language 3 | Z | 2 |
| A0B04JAP | Japanese | Z | 2 |
| A0B04GN | German Grammar | Z | 2 |
| A0B04KN | German Conversation | Z | 2 |
| A0B04KN2 | German conversation 2 | 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 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers units 1-4. Studying for CAE helps you to improve your language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on realistic tasks and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council. | | | |
| A0B04CAE2 | Certificate of Advanced English CAE 2 | Z | 2 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers units 5-8. Studying for CAE helps you to improve your language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on realistic tasks and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. | | | |
| A0B04CAE3 | Certificate of Advanced English CAE 3 | Z | 2 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit 9 - 12. Studying for CAE helps you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. | | | |
| A0B04CAE4 | Certificate of Advanced English 4 | Z | |
| 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 European Language Frame. The 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 B2 ELF. | | | |
| 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 European Language Frame. The 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 B2 ELF. | | | |
| A0B04FCE4 | FCE4 | 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 European Language Frame. The 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 B2 ELF. | | | |
| A0B04FCE3 | FCE 3 | 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 Common European Framework of Reference for Languages (CEFR). The 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 B2 CEFR. | | | |
| A0B04PZP | Preparation for stay in Germany | Z | 2 |
| A0B04RET | Rhetoric | Z | 2 |
| The objective of the subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the prospective engineers and bachelors. This subject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychological barriers for public speaking so that the students can 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 |
| A0B04S4 | Spanish Language 4 | Z | 2 |
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 |

Code of the group: MTV

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) <i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|-------|--|------------|---------|-------|----------|------|
| TVV | Physical education | Z | 0 | 0+2 | Z,L | v |
| TV-V1 | Physical education | Z | 1 | 0+2 | Z,L | v |
| TVV0 | Physical education | Z | 0 | 0+2 | Z,L | v |
| TVKZV | Physical Education Course | Z | 0 | 7dní | Z | v |
| TVKLV | Physical Education Course | Z | 0 | 7dní | L | v |

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

| | | | |
|-------|---------------------------|---|---|
| TVV | Physical education | Z | 0 |
| TV-V1 | Physical education | Z | 1 |
| TVV0 | Physical education | Z | 0 |
| TVKZV | Physical Education Course | Z | 0 |
| TVKLV | Physical Education Course | Z | 0 |

Code of the group: MOESVOL

Name of the group: Elective subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

~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 |
|--|--|------------|---------|
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 |
| A0B04CAE1 | Certificate of Advanced English CAE 1 | Z | 2 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers units 1-4. Studying for CAE helps you to improve your language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on realistic tasks and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council. | | | |
| A0B04CAE2 | Certificate of Advanced English CAE 2 | Z | 2 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers units 5-8. Studying for CAE helps you to improve your language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on realistic tasks and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. | | | |
| A0B04CAE3 | Certificate of Advanced English CAE 3 | Z | 2 |
| The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit 9 - 12. Studying for CAE helps you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. | | | |
| A0B04CAE4 | Certificate of Advanced English 4 | Z | |
| 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 |
| The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. The 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 B2 ELF. | | | |

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| 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 European Language Frame. The 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 B2 ELF. | | | |
| A0B04FCE3 | FCE 3 | 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 Common European Framework of Reference for Languages (CEFR). The 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 B2 CEFR. | | | |
| A0B04FCE4 | FCE4 | 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 European Language Frame. The 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 B2 ELF. | | | |
| A0B04GA | | Z | 2 |
| The aim of this course is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The course is meant mainly as a supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice. | | | |
| A0B04GN | German Grammar | Z | 2 |
| A0B04JAP | Japanese | Z | 2 |
| A0B04KA | English Conversation 2 | Z | 2 |
| The course is designed for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they already know, as well as learn new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners. | | | |
| A0B04KF1 | French conversation 1 | Z | 2 |
| A0B04KF2 | French conversation 1 | Z | 2 |
| A0B04KN | German Conversation | Z | 2 |
| A0B04KN2 | German conversation 2 | 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 |
| This course is designed for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare students to be able to communicate about technical subject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and practicing via 3 different types of texts: an abstract, a short explanatory article, and a research article. | | | |
| 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 the subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the prospective engineers and bachelors. This subject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychological barriers for public speaking so that the students can create a good image. The course "Retorika" provides an introduction to this subject. | | | |
| A0B04S1 | Spanish language 1 | Z | 2 |
| A0B04S2 | Spanish language 2 | Z | 2 |
| A0B04S3 | Spanish language 3 | Z | 2 |
| A0B04S4 | Spanish Language 4 | Z | 2 |
| A0M13DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master's degree study program. 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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M14DIP | Diploma Project | Z | 25 |
| A0M15DIP | Master's thesis | Z | 25 |
| A0M16DIP | Diploma thesis | Z | 25 |
| A0M17DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. Diploma projects deals with microwave technique, antennas, propagation, optical communications, EMC, and medical applications. | | | |
| A0M31DIP | Diploma Thesis | Z | 25 |
| A0M33DIP | Diploma Thesis | Z | 25 |
| A0M34DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M35DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M36DIP | Diploma Thesis | Z | 25 |

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| A0M37DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M38DIP | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| A0M39DIP | Master Thesis | Z | 25 |
| A8M17AEC | Antennas and EMC | Z,ZK | 5 |
| A8M17OTT | Optical&THz Techniques | Z,ZK | 3 |
| A8M17RFB | RF Blocks Technology | Z,ZK | 7 |
| A8M17ROL | RF and Optical Engineering Lab | Z | 5 |
| A8M17WCP | Wireless Channels&Propagation | Z,ZK | 5 |
| The aim of the course is to provide deep knowledge of the wireless propagation channel in real environments for the planning of terrestrial and satellite wireless links. It will include a theoretical background for the radiowave propagation in the atmosphere of the Earth as well as design procedures recommended by ITU-R for selected applications, such as both terrestrial and satellite, fixed and mobile links in various frequency bands. | | | |
| A8M37ART | Architectures of Rx/Tx Systems | Z,ZK | 5 |
| A8M37CAD | CAD and Numerical Methods in RF Engineering | KZ | 3 |
| A8M37MAM | Microprocessors&Microcomputers | Z,ZK | 7 |
| The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect external circuit to the processor bus, and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C language and combination of both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of necessary peripherals and software design. | | | |
| A8M37RML | Radio Systems Measurement Lab | Z | 5 |
| ADIP25 | Diploma Thesis | Z | 25 |
| Independent final comprehensive work for the Master'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 diploma thesis will be defended in front of the board of examiners for the comprehensive final examination. | | | |
| AE0B04C0 | Czech Language 0 | Z | 2 |
| The course is aimed towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the course is to give the students first hand information about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases needed for everyday communication during their stay in the Czech Republic. | | | |
| B0M16FI2 | Philosophy 2 | Z,ZK | 4 |
| The course is oriented on the transdisciplinary aspects of philosophy, informatics, physics, mathematics and biology. | | | |
| B0M16HSD | History of economy and social studies | Z,ZK | 4 |
| This subject deals with the history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech political representation, its aims and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical groups. | | | |
| B0M16HT2 | History of science and technology 2 | Z,ZK | 4 |
| This subject traces historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate students' interest in the history and traditions of the subject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life and the influence of technical engineers | | | |
| B0M16MPS | Psychology | Z,ZK | 4 |
| B0M16TE1 | Theology | Z,ZK | 4 |
| This subject provides to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the basic theologic disciplines are gone through. The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who want to get know Christianity - religion from which grows our civilization up. | | | |
| TV-V1 | Physical education | Z | 1 |
| TVKLV | Physical Education Course | Z | 0 |
| TVKZV | Physical Education Course | Z | 0 |
| TVV | Physical education | Z | 0 |
| TVV0 | Physical education | Z | 0 |

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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