

Study plan

Name of study plan: Softwarové inženýrství (STM-A7B)

Faculty/Institute/Others: Faculty of Electrical Engineering
 Department: Department of Computer Science
 Branch of study guaranteed by the department: Software Engineering
 Garant of the study branch: doc. Ing. Ivan Jelínek, CSc.
 Program of study: Software Engineering and Management
 Type of study: Bachelor full-time
 Required credits: 159
 Elective courses credits: 21
 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: 121
 The role of the block: P

Code of the group: BBAP
 Name of the group: Bachelor Thesis
 Requirement credits in the group: In this group you have to gain at least 20 credits (at most 340)
 Requirement courses in the group: In this group you have to complete at least 1 course
 Credits in the group: 20
 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 |
|----------|--|------------|---------|----------|----------|------|
| A0B13BAP | Bachelor thesis | Z | 20 | 28S | L | P |
| A0B02BAP | Bachelor thesis | Z | 20 | 28s | L | P |
| A0B14BAP | Bachelor thesis | Z | 20 | | L | P |
| A0B15BAP | Bachelor thesis | Z | 20 | 28s | L | P |
| A0B16BAP | Bachelor thesis | Z | 20 | 28s | Z,L | P |
| A0B17BAP | Bachelor thesis | Z | 20 | 28s | L | P |
| A0B31BAP | Bachelor thesis | Z | 20 | | L | P |
| A0B32BAP | Bachelor thesis <i>Ivan Pravda</i> | Z | 20 | 0P + 28S | L | P |
| A0B33BAP | Bachelor thesis | Z | 20 | 28S | L | P |
| A0B34BAP | Bachelor thesis | Z | 20 | 28L | L | P |
| A0B35BAP | Bachelor thesis | Z | 20 | 28S | L | P |
| A0B36BAP | Bachelor thesis | Z | 20 | 9s | L,Z | P |
| A0B37BAP | Bachelor thesis | Z | 20 | 28s | L | P |
| A0B38BAP | Bachelor thesis | Z | 20 | 0P+28C | L | P |
| A0B39BAP | Bachelor thesis | Z | 20 | 9S | L | P |
| A0B01BAP | Bachelor thesis | Z | 20 | 0+5 | Z,L | P |
| ABAP20 | Bachelor thesis | Z | 20 | 28s | L,Z | P |

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

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|--|-----------------|---|----|
| A0B13BAP | Bachelor thesis | Z | 20 |
| Independent final 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 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. | | | |
| A0B02BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B14BAP | Bachelor thesis | Z | 20 |
| A0B15BAP | Bachelor thesis | Z | 20 |

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|---|-----------------|---|----|
| A0B16BAP | Bachelor thesis | Z | 20 |
| A0B17BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B31BAP | Bachelor thesis | Z | 20 |
| A0B32BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B33BAP | Bachelor thesis | Z | 20 |
| A0B34BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B35BAP | Bachelor thesis | Z | 20 |
| A0B36BAP | Bachelor thesis | Z | 20 |
| Independent final project for the Bachelor's degree study program. Student will choose a topic from a range of topics related to his or her branch of study that 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. | | | |
| A0B37BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B38BAP | Bachelor thesis | Z | 20 |
| Independent final 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 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. | | | |
| A0B39BAP | Bachelor thesis | Z | 20 |
| A0B01BAP | Bachelor thesis | Z | 20 |
| ABAP20 | Bachelor thesis | Z | 20 |

Code of the group: BSTMBBE

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

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|-----------|---|------------|---------|-------|----------|------|
| A7B14BP1 | Safety in Electrical Engineering 1 | Z | 0 | 4+8j | Z,L | P |
| A7B14BPZS | Basic health and occupational safety regulations | Z | 0 | 2+2j | Z | P |

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

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|---|--|---|---|
| A7B14BP1 | Safety in Electrical Engineering 1 | Z | 0 |
| The purpose of the course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. In this way the students receive qualification of instructed person that enables them to work on electrical equipment according to the Directive of the Dean No. 4/2009 | | | |
| A7B14BPZS | 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. Directive of the Dean No. 1/2007. This program is obligatory. | | | |

Code of the group: BSTMBBE2

Name of the group: Safety of the bachelor's studies 2

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Code of the group: BSTMP1

Name of the group: Compulsory subjects of the programm 1st year

Requirement credits in the group: In this group you have to gain 61 credits

Requirement courses in the group: In this group you have to complete at least 11 courses

Credits in the group: 61

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 |
|----------|---|------------|---------|-------|----------|------|
| A7B31ELI | Electrical engineering in informatics | Z,ZK | 5 | 2P+2C | Z | P |
| A7B36PJV | Programming in Java | Z,ZK | 6 | 2P+2C | L | P |
| A7B14SAP | Computer Structures and Architectures | Z,ZK | 6 | 2+2c | L | P |
| A7B14TEV | Expression of technical information | KZ | 4 | 2+2c | L | P |

Characteristics of the courses of this group of Study Plan: Code=BSTMP1 Name=Compulsory subjects of the programm 1st year

| | | | | | | |
|----------|---------------------------------------|------|---|---|--|--|
| A7B31ELI | Electrical engineering in informatics | Z,ZK | 5 | The subject is oriented on fundamentals of electrical engineering focused mainly on building blocks in computer technology. The content of the subject is built on elementary knowledge from secondary school. Seminars and exercises are devoted to the application and verification of knowledge presented in lectures. | | |
| A7B36PJV | Programming in Java | Z,ZK | 6 | The aim of this course is to offer a good level of a acquaintance with Java programming namely object approach, graphical user interface, telecommunications, internet, multimedia and database connections. | | |
| A7B14SAP | Computer Structures and Architectures | Z,ZK | 6 | Digital computer units and their structure, function and hardware implementation: ALU, control unit, memory system, inputs, outputs, data storage and transfer. | | |
| A7B14TEV | Expression of technical information | KZ | 4 | Students are guided through basic forms of ways for expression of technical information. Writing text, drawing graphs and speaking by presentations are also practically exercised. Two types of recipients are distinguished: amateurs and professionals. | | |

Code of the group: BSTMP23

Name of the group: Compulsory subjects of the programm 2nd and 3rd year

Requirement credits in the group: In this group you have to gain 35 credits

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

Credits in the group: 35

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 |
|----------|---|------------|---------|---------|----------|------|
| A7B16EPD | Business Economics | KZ | 5 | 2+2s | L | P |
| A7B32KBE | Ciphers and information security Tomáš Vaněk, Jaromír Hrad, Ivan Pravda Tomáš Vaněk Tomáš Vaněk (Gar.) | Z,ZK | 6 | 2P + 2L | L | P |

Characteristics of the courses of this group of Study Plan: Code=BSTMP23 Name=Compulsory subjects of the programm 2nd and 3rd year

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|----------|----------------------------------|------|---|--|--|--|
| A7B16EPD | Business Economics | KZ | 5 | Legal forms of businesses. Assets and capital of the company. Fundamentals of the management of the firm. Short-term and long-term financing. Basic accounting principles. Accounting statements and their structure. Financial analysis indicators. Decision-making, investment effectiveness. Fundamentals of management, organisational structures. Tax system in CR with a focus to income tax. Financial markets. Subject is the introduction to various disciplines in management of the firm. | | |
| A7B32KBE | Ciphers and information security | Z,ZK | 6 | The orientation of this course reflects the increasing importance of information security. The course involves the essential mathematical theory and presents contemporary algorithms and applications of cryptography. Both symmetrical and asymmetrical cryptographic systems are mentioned. | | |

Code of the group: BSTMPRO

Name of the group: Project

Requirement credits in the group: In this group you have to gain at least 5 credits (at most 30)

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

Credits in the group: 5

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 |
|----------|---|------------|---------|-------|----------|------|
| A7B39PRO | Semester Project Jaroslav Sloup Jaroslav Sloup Jaroslav Sloup (Gar.) | KZ | 6 | 2S | Z | P |
| A7B36PRO | Semestral Project Jiří Dostál, Jan Havlík, Martin Rehák, Martin Schaefer, Božena Mannová, Pavel Zahradník, Ondřej Macek, Martin Komárek, Tomáš Černý, | KZ | 6 | 2s | L,Z | P |

Characteristics of the courses of this group of Study Plan: Code=BSTMPRO Name=Project

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|----------|------------------|----|---|--|--|--|
| A7B39PRO | Semester Project | KZ | 6 | | | |
|----------|------------------|----|---|--|--|--|

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|----------|-------------------|----|---|
| A7B36PRO | Semestral Project | KZ | 6 |
|----------|-------------------|----|---|

Individual or team work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization and provided by the specific department/departments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the projects can be found on the web pages of the selected department. Within this course the project is also defended.

Code of the group: BSTMECTSZAJ

Name of the group: Exam in English

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 34

The role of the block: PO

Code of the group: BSTMPOSI

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 34 credits

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

Credits in the group: 34

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 |
|----------|---|------------|---------|-------|----------|------|
| A7B36VYD | Data Mining Miroslav Čepek | Z,ZK | 5 | 2P+2C | Z | PO |

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

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|----------|-------------|------|---|
| A7B36VYD | Data Mining | Z,ZK | 5 |
|----------|-------------|------|---|

Name of the block: Elective courses

Minimal number of credits of the block: 4

The role of the block: V

Code of the group: BSTMECTSHJKTV

Name of the group: Humanities, language courses, physical training

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 125)

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) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|----------|---|------------|---------|-------|----------|------|
| A0B04GA | Petra Jennings Dana Saláková (Gar.) | Z | 2 | 2C | Z,L | v |
| A0B04KA | English Conversation 2 Markéta Havlíčková Dana Saláková (Gar.) | Z | 2 | 2C | Z,L | v |
| A0B04A0Z | English language 0-1 Dana Saláková | Z | 0 | 2s | Z | v |
| A0B04A0L | Czech language 0 Pavla Péterová | Z | 0 | 2s | L | v |
| A0B04A1Z | English language 1-1 Pavla Péterová | Z | 0 | 2C | Z | v |
| A0B04A1L | English language 1-2 Pavla Péterová | Z | 0 | 2C | L | v |
| A7B04A2Z | English Language 2-1 Petra Jennings | Z | 0 | 2C | Z | v |
| A0B04OA | Technical English Course Markéta Havlíčková Dana Saláková (Gar.) | Z | 2 | 2C | Z,L | v |

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|-----------|---|------|---|-------|-----|---|
| AE0B04C0 | Czech Language 0 <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B16ET1 | Ethic <i>Vladimír Slámečka Vladimír Slámečka Vladimír Slámečka (Gar.)</i> | KZ | 4 | 2+2s | Z,L | v |
| A0B16FIL | Philosophy <i>Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)</i> | ZK | 2 | 2+0s | Z,L | v |
| A0B16F11 | Philosophy I <i>Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)</i> | KZ | 4 | 2+2s | Z,L | v |
| A0B04KF1 | French conversation 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04KF2 | French conversation 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04F1 | French language 1 <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04F2 | French language 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04F3 | French Language 3 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A7B39GRT | Graphical Design | KZ | 5 | 2P+2S | Z,L | v |
| A0B16HI1 | History I <i>Roman Elner, Milena Josefovičová Milena Josefovičová Roman Elner (Gar.)</i> | KZ | 4 | 2+2s | Z,L | v |
| A0B16HTE | History of technology and economic <i>Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)</i> | ZK | 2 | 2+0s | Z,L | v |
| A0B04JAP | Japanese <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B16MPL | Management psychology <i>Jan Fiala Jan Fiala Jan Fiala (Gar.)</i> | ZK | 2 | 2+0s | Z,L | v |
| A0B16MPS | Psychology <i>Jan Fiala</i> | Z,ZK | 4 | 2+2s | Z,L | v |
| A0B04GN | German Grammar <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04KN | German Conversation <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04KN2 | German conversation 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N1 | German language 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N2 | German language 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04N3 | German language 3 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04ON | Professional German <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE1 | Certificate of Advanced English CAE 1 <i>Pavla Péterová Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE2 | Certificate of Advanced English CAE 2 <i>Pavla Péterová Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE3 | Certificate of Advanced English CAE 3 <i>Pavla Péterová Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04CAE4 | Certificate of Advanced English 4 <i>Pavla Péterová</i> | Z | 2 | 2C | Z,L | v |
| A0B04FCE1 | FCE 1 <i>Petra Jennings Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04FCE2 | FCE 2 <i>Pavla Péterová Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04FCE4 | FCE4 <i>Pavla Péterová</i> | Z | 2 | 2C | Z,L | v |
| A0B04FCE3 | FCE 3 <i>Pavla Péterová Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04PZP | Preparation for stay in Germany <i>Dana Lisá</i> | Z | 2 | 2C | * | v |
| A0B04KR | Russian conversation <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |
| A0B04KR2 | Russian conversation 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R1 | Russian language 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R2 | Russian language 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R3 | Russian language 3 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04R4 | Russian language 3 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04RET | Rhetoric <i>Jitka Pinková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z,L | v |

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|-----------|--|---|---|------|-----|---|
| A0B04CA | Technical English for Pre-Intermediate <i>Markéta Havlíčková</i> | Z | 2 | 2C | L | v |
| A003TV | Physical Education | Z | 2 | 0+2 | L,Z | 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 |
| A0B03TVKL | Physical Education Course | Z | 1 | 7dní | L | v |
| A0B03TVKZ | Physical Education Course | Z | 1 | 7dní | Z | v |
| A0B04C2Z | Czech language 2 <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | Z | v |
| A0B04C2L | Czech language 2 <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | L | v |
| A0B04CIN | <i>Markéta Havlíčková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04KS1 | Spanish conversation 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04KS2 | Spanish conversation 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S1 | Spanish language 1 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S2 | Spanish language 2 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S3 | Spanish language 3 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |
| A0B04S4 | Spanish Language 4 <i>Dana Saláková Dana Saláková (Gar.)</i> | Z | 2 | 2C | * | v |

Characteristics of the courses of this group of Study Plan: Code=BSTMECTSHJKT Name=Humanities, language courses, physical training

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|---|------------------------------------|----|---|--|--|
| 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. | | | | | |
| A0B04A0Z | English language 0-1 | Z | 0 | | |
| A0B04A0L | Czech language 0 | Z | 0 | | |
| A0B04A1Z | English language 1-1 | Z | 0 | | |
| A0B04A1L | English language 1-2 | Z | 0 | | |
| A7B04A2Z | English Language 2-1 | Z | 0 | | |
| A0B04OA | Technical English Course | Z | 2 | | |
| The course is designed for students who have completed the B2 English course. Its main objective is to prepare students for the study of selected specialized courses in English by covering a broader range of topics in engineering. In addition to teaching materials aimed at expanding technical vocabulary and consolidating current language skills, the focus is on authentic articles adapted from professional journals and accompanying videos. The syllabus also leaves space for students' presentations covering various fields of science. | | | | | |
| 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. | | | | | |
| A0B16ET1 | Ethic | KZ | 4 | | |
| Aim of this subject is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situations of human life. Essential parts of the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the communal answers. | | | | | |
| A0B16FIL | Philosophy | ZK | 2 | | |
| A0B16F11 | Philosophy I | KZ | 4 | | |
| We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics. | | | | | |
| 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 | | |
| A7B39GRT | Graphical Design | KZ | 5 | | |
| The course grants an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical documents and hand drawing. | | | | | |
| A0B16HI1 | History I | KZ | 4 | | |
| The main purpose of this subject is to provide a historical overview and explanation of rises and developments of mass movements and totalitarian states in 20th century. The course is based on political and econom-social history with attention to philosophic and psychologic connections. | | | | | |
| A0B16HTE | History of technology and economic | ZK | 2 | | |
| A0B04JAP | Japanese | Z | 2 | | |

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|-----------|---|------|---|
| A0B16MPL | Management psychology Psychology of personality, psychology of work and organization. Psychology in human resources management. The manager, his role and competencies. Motivation and engagement. Skills development. Communication and conflict resolution. Work group and team, conducting meetings. Time management and delegation. Dealing with stress and emotions. Company culture and organizational change. | ZK | 2 |
| A0B16MPS | Psychology | Z,ZK | 4 |
| 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 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. | Z | 2 |
| A0B04CAE2 | Certificate of Advanced English CAE 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. | Z | 2 |
| A0B04CAE3 | Certificate of Advanced English CAE 3 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. | Z | 2 |
| A0B04CAE4 | Certificate of Advanced English 4 | Z | |
| A0B04FCE1 | FCE 1 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. | Z | 2 |
| A0B04FCE2 | FCE 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. | Z | 2 |
| A0B04FCE4 | FCE4 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. | Z | 2 |
| A0B04FCE3 | FCE 3 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. | Z | 2 |
| A0B04PZP | Preparation for stay in Germany | Z | 2 |
| 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 |
| A0B04RET | Rhetoric 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. | Z | 2 |
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 |
| A003TV | Physical Education | Z | 2 |
| 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. | Z | 1 |

| | | | |
|--|---------------------------|---|---|
| A0B03TV4 | Physical Education 4 | Z | 1 |
| 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 | Z | 1 |
| 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. | | | |
| A0B03TV6 | Physical Education 6 | Z | 1 |
| 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. | | | |
| A0B03TVKL | Physical Education Course | Z | 1 |
| 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 | Z | 1 |
| 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. | | | |
| A0B04C2Z | Czech language 2 | Z | 2 |
| The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students | | | |
| A0B04C2L | Czech language 2 | Z | 2 |
| The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students. | | | |
| A0B04CIN | | 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 |

Code of the group: BSTMVOLSI

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 |
|---|----------------------|------------|---------|
| A003TV | Physical Education | Z | 2 |
| A0B01BAP | Bachelor thesis | Z | 20 |
| A0B02BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B03TV3 | Physical Education 3 | Z | 1 |
| 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.

| | | | |
|---|--|---|---|
| A0B03TV4 | Physical Education 4 | Z | 1 |
| <p>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.</p> | | | |
| A0B03TV5 | Physical Education 5 | Z | 1 |
| <p>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.</p> | | | |
| A0B03TV6 | Physical Education 6 | Z | 1 |
| <p>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.</p> | | | |
| A0B03TVKL | Physical Education Course | Z | 1 |
| <p>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</p> | | | |
| A0B03TVKZ | Physical Education Course | Z | 1 |
| <p>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.</p> | | | |
| A0B04A0L | Czech language 0 | Z | 0 |
| A0B04A0Z | English language 0-1 | Z | 0 |
| A0B04A1L | English language 1-2 | Z | 0 |
| A0B04A1Z | English language 1-1 | Z | 0 |
| A0B04C2L | Czech language 2 | Z | 2 |
| <p>The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students.</p> | | | |
| A0B04C2Z | Czech language 2 | Z | 2 |
| <p>The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students</p> | | | |
| A0B04CA | Technical English for Pre-Intermediate | Z | 2 |
| A0B04CAE1 | Certificate of Advanced English CAE 1 | Z | 2 |
| <p>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.</p> | | | |
| A0B04CAE2 | Certificate of Advanced English CAE 2 | Z | 2 |
| <p>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.</p> | | | |
| A0B04CAE3 | Certificate of Advanced English CAE 3 | Z | 2 |
| <p>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.</p> | | | |
| 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 |
| <p>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.</p> | | | |
| A0B04FCE2 | FCE 2 | Z | 2 |
| <p>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.</p> | | | |

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| 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 |
| The course is designed for students who have completed the B2 English course. Its main objective is to prepare students for the study of selected specialized courses in English by covering a broader range of topics in engineering. In addition to teaching materials aimed at expanding technical vocabulary and consolidating current language skills, the focus is on authentic articles adapted from professional journals and accompanying videos. The syllabus also leaves space for students' presentations covering various fields of science. | | | |
| 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 |
| A0B13BAP | Bachelor thesis | Z | 20 |
| Independent final 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 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. | | | |
| A0B14BAP | Bachelor thesis | Z | 20 |
| A0B15BAP | Bachelor thesis | Z | 20 |
| A0B16BAP | Bachelor thesis | Z | 20 |
| A0B16ET1 | Ethic | KZ | 4 |
| Aim of this subject is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situations of human life. Essential parts of the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the communal answers. | | | |
| A0B16FI1 | Philosophy I | KZ | 4 |
| We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics. | | | |
| A0B16FIL | Philosophy | ZK | 2 |
| A0B16HI1 | History I | KZ | 4 |
| The main purpose of this subject is to provide a historical overview and explanation of rises and developments of mass movements and totalitarian states in 20th century. The course is based on political and econom-social history with attention to philosophic and psychologic connections. | | | |
| A0B16HTE | History of technology and economic | ZK | 2 |
| A0B16MPL | Management psychology | ZK | 2 |
| Psychology of personality, psychology of work and organization. Psychology in human resources management. The manager, his role and competencies. Motivation and engagement. Skills development. Communication and conflict resolution. Work group and team, conducting meetings. Time management and delegation. Dealing with stress and emotions. Company culture and organizational change. | | | |
| A0B16MPS | Psychology | Z,ZK | 4 |

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| A0B17BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B31BAP | Bachelor thesis | Z | 20 |
| A0B32BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B33BAP | Bachelor thesis | Z | 20 |
| A0B34BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B35BAP | Bachelor thesis | Z | 20 |
| A0B36BAP | Bachelor thesis | Z | 20 |
| Independent final project for the Bachelor's degree study program. Student will choose a topic from a range of topics related to his or her branch of study that 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. | | | |
| A0B37BAP | Bachelor thesis | Z | 20 |
| 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. | | | |
| A0B38BAP | Bachelor thesis | Z | 20 |
| Independent final 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 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. | | | |
| A0B39BAP | Bachelor thesis | Z | 20 |
| A7B04A2Z | English Language 2-1 | Z | 0 |
| A7B14BP1 | Safety in Electrical Engineering 1 | Z | 0 |
| The purpose of the course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. In this way the students receive qualification of instructed person that enables them to work on electrical equipment according to the Directive of the Dean No. 4/2009 | | | |
| A7B14BPZS | 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. Directive of the Dean No. 1/2007. This program is obligatory. | | | |
| A7B14SAP | Computer Structures and Architectures | Z,ZK | 6 |
| Digital computer units and their structure, function and hardware implementation: ALU, control unit, memory system, inputs, outputs, data storage and transfer. | | | |
| A7B14TEV | Expression of technical information | KZ | 4 |
| Students are guided through basic forms of ways for expression of technical information. Writing text, drawing graphs and speaking by presentations are also practically exercised. Two types of recipients are distinguished: amateurs and professionals. | | | |
| A7B16EPD | Business Economics | KZ | 5 |
| Legal forms of businesses. Assets and capital of the company. Fundamentals of the management of the firm. Short-term and long-term financing. Basic accounting principles. Accounting statements and their structure. Financial analysis indicators. Decision-making, investment effectiveness. Fundamentals of management, organisational structures. Tax system in CR with a focus to income tax. Financial markets. Subject is the introduction to various disciplines in management of the firm. | | | |
| A7B31ELI | Electrical engineering in informatics | Z,ZK | 5 |
| The subject is oriented on fundamentals of electrical engineering focused mainly on building blocks in computer technology. The content of the subject is built on elementary knowledge from secondary school. Seminars and exercises are devoted to the application and verification of knowledge presented in lectures. | | | |
| A7B32KBE | Ciphers and information security | Z,ZK | 6 |
| The orientation of this course reflects the increasing importance of information security. The course involves the essential mathematical theory and presents contemporary algorithms and applications of cryptography. Both symmetrical and asymmetrical cryptographic systems are mentioned. | | | |
| A7B36PJV | Programming in Java | Z,ZK | 6 |
| The aim of this course is to offer a good level of a acquaintance with Java programming namely object approach, graphical user interface, telecommunications, internet, multimedia and database connections. | | | |
| A7B36PRO | Semestral Project | KZ | 6 |
| Individual or team work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization and provided by the specific department/departments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the projects can be found on the web pages of the selected department. Within this course the project is also defended. | | | |
| A7B36VYD | Data Mining | Z,ZK | 5 |
| A7B39GRT | Graphical Design | KZ | 5 |
| The course grants an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical documents and hand drawing. | | | |
| A7B39PRO | Semester Project | KZ | 6 |
| ABAP20 | Bachelor thesis | Z | 20 |
| 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. | | | |

For updated information see <http://bilakniha.cvut.cz/en/f3.html>

Generated: day 09. 04. 2020, time 20:16.