

Study plan

Name of study plan: Software Engineering and Technology

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Branch of study guaranteed by the department: Common courses

Garantor of the study branch:

Program of study: Software Engineering and Technology

Type of study: Bachelor full-time

Required credits: 170

Elective courses credits: 10

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: 150

The role of the block: P

Code of the group: BSITBAP

Name of the group: Bachelor Project

Requirement credits in the group: In this group you have to gain 20 credits

Requirement courses in the group: In this group you have to complete 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BBAP20	Bachelor thesis	Z	20	0+12	L,Z	P

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

BBAP20	Bachelor thesis				Z	20
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Code of the group: BSITBBE

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

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

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

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

BEZB	Safety in Electrical Engineering for a bachelor's degree The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.				Z	0
BEZZ	Basic health and occupational safety regulations The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.				Z	0

Code of the group: BSITBBE2

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: BSITMP1

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

Requirement credits in the group: In this group you have to gain 60 credits

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

Credits in the group: 60

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
B0B36DBS	Database Systems Martin Svoboda, Zden k Kouba	Z,ZK	6	2P+2C	L	P
B6B01LAG	Linear Algebra Ji í Velebil Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	P
B6B04PRE	Presentation Jitka Pinková, Dana Saláková, Dana Lisá, Václava Jarská Jitka Pinková Dana Saláková (Gar.)	KZ	3	1P+1C	Z	P
B0B36PJV	Programming in Java Ji í Vok ínek Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C	L	P
B6B36SMP	Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	P
B6B36TS1	Software Testing Mat j Klíma, Miroslav Bureš Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	P
B6B36ZAL	Introduction to Programming Ji í Vok ínek Jan Ko í Ji í Vok ínek (Gar.)	Z,ZK	5	2P+2C+2D	Z	P
B6B01ZDM	Introduction to Discrete Mathematics Jaroslav Tišer, Mat j Novotný Jaroslav Tišer (Gar.)	Z,ZK	5	2P+2S+2D	Z	P
B6B39ZMT	Foundations of Multimedia Production Roman Berka Roman Berka Roman Berka (Gar.)	KZ	3	4P+4L+2D	Z	P
B6B38ZPS	Basics of Computer Systems Ji í Novák Ji í Vok ínek Ji í Novák (Gar.)	Z,ZK	6	3P+3L	Z	P
B6B36ZPR	Introduction to Project Management Pavel Náplava Pavel Náplava (Gar.)	KZ	3	4P+4C+2D	Z	P
B6B39ZWA	Martin Klíma, Martin Mudra, Petr Hu ák Miroslav Bureš Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	P

Characteristics of the courses of this group of Study Plan: Code=BSITMP1 Name=Compulsory subjects of the programm 1st year

B0B36DBS	Database Systems	Z,ZK	6
B6B01LAG	Linear Algebra	Z,ZK	7
B6B04PRE	Presentation	KZ	3
B0B36PJV	Programming in Java	Z,ZK	6
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
This course covers the topic of requirements engineering. Their gathering, analysis, documentation, management, ... Students also will gain knowledge on using the most widely spread graphic notation - UML.			
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
No advanced knowleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of combinatorics, set and graph theory. Then we proceed to formal construction of propositional calculus.			
B6B39ZMT	Foundations of Multimedia Production	KZ	3
The course familiarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, video and audio, as well as the principles of graphic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, students gradually pass each section of the course divided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processing of multimedia content while they use several different types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained within the last day dedicated to composition rules within a Web project. After completing the course, students will carry out their own independent project and after its submission will be assessed.			
B6B38ZPS	Basics of Computer Systems	Z,ZK	6
B6B36ZPR	Introduction to Project Management	KZ	3
The course introduces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning, organization, etc.) students also get practical experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in the consecutive courses.			
B6B39ZWA		Z,ZK	5
The subject is focussing on the creation and maintenance of web presentations. It covers the creation of data structures (HTML), graphical design (CSS), and dynamics on the client side (Javascript). The course continues with server-side dynamics programmed in PHP 7 language. The students will learn how to handle forms and how to create a simple web application. The subject ends with an oral and written exam.			

Code of the group: BSITMP23

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

Requirement credits in the group: In this group you have to gain 64 credits

Requirement courses in the group: In this group you have to complete at least 13 courses

Credits in the group: 64

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
B6B36DSA	Data Structures and Algorithms <i>Karel Richta Jaroslav Sloup Karel Richta (Gar.)</i>	Z,ZK	6	2P+3C+3D	L	P
B6B36EAR	Enterprise Architectures <i>Bogdan Kostov, Petr K emen, Martin Ledvinka, Miroslav Blaško Petr K emen Petr K emen (Gar.)</i>	KZ	5	2P+2C+2D	Z	P
B6B16INS	Information Systems <i>Pavel Náplava, Jan Ko í Jaroslav Sloup Pavel Náplava (Gar.)</i>	KZ	4	2P+2S+2D	L	P
B6B32KAB	Cryptography and Information Security <i>Tomáš Van k Jan Ko í Tomáš Van k (Gar.)</i>	Z,ZK	5	2P + 2L + 2D	Z	P
B6B01MAA	Mathematics Analyze <i>Natalie Žukovec Natalie Žukovec Petr Habala (Gar.)</i>	Z,ZK	5	2P+2S+2D	Z	P
B6B36NSS	Design of Software Systems <i>Martin Tomášek, Ji í Šebek Ji í Vok ínek Ji í Vok ínek (Gar.)</i>	Z,ZK	5	2P+2C+2D	L	P
B6B36OMO	Object-oriented design and Modeling <i>David Kadle ek, David Kuka ka, David Kadle ek David Kadle ek David Kadle ek (Gar.)</i>	Z,ZK	6	2P+2C	Z	P
B6B32PSI	Computer Networks <i>Jan Kubr, Tomáš Van k, Zbyn k Kocur, Leoš Bohá Jan Ko í Leoš Bohá (Gar.)</i>	Z,ZK	5	2P + 2C + 3D	Z	P
B6B01PST	Probability and Statistics <i>Kate ina Helisová, Miroslav Korbela Kate ina Helisová Kate ina Helisová (Gar.)</i>	Z,ZK	4	2P+2S+1D	L	P
B6B36PJC	Programming in C/C++ <i>Karel Richta Jaroslav Sloup Karel Richta (Gar.)</i>	KZ	4	2P+2C+2D	Z	P
B6B16PIT	Law for IT <i>Martin Dobiáš, Peter Kopa ka, Michal Briaský Jaroslav Sloup Peter Kopa ka (Gar.)</i>	Z,ZK	4	3P+1S+1D	Z	P
B6B16ZPD	Business Economics <i>Martin Dobiáš, Ji í Vaší ek, Josef ernohous, Blanka Ku erková Martin Dobiáš Martin Dobiáš (Gar.)</i>	Z,ZK	5	2P+2S+2D	Z	P
B6B36RSP	Management of Software Projects <i>Miroslav Bureš Miroslav Bureš (Gar.)</i>	Z,ZK	6	3P+2C+3D	L	P

Characteristics of the courses of this group of Study Plan: Code=BSITMP23 Name=Compulsory subjects of the program 2nd and 3rd year

B6B36DSA	Data Structures and Algorithms	Z,ZK	6
B6B36EAR	Enterprise Architectures	KZ	5
The course offers an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most common enterprise architectures and related design patterns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of students will prepare a simple enterprise application as their semestral work.			
B6B16INS	Information Systems	KZ	4
The goal of this course is to familiarise students with the information systems topic and information systems implementation principles. During the course, students are introduced to "on the market" existing types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other types of information systems. The fundamental part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, ways of information systems implementation and information system implementation based on the project management principles. The emphasis is on the initial customer analysis, customer insight and ability to decide whether it is better to implement any existing information system or to develop a new one from scratch. These factors determine the information system implementation success. At the end of the course information systems security, operation, support, maintenance, legislation impacts, and government information systems topics are discussed.			
B6B32KAB	Cryptography and Information Security	Z,ZK	5
The Information Security course provides a complete source of information on the field of security of information systems and information technologies. The most of information in today society is created, transferred, stored in electronic form so information security is very important part of it. Technical background for information security is provided by cryptology.			
B6B01MAA	Mathematics Analyze	Z,ZK	5
This course is an introduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications (graphing, Taylor polynomial) and definite/indefinite integral with its applications, sequences and series.			
B6B36NSS	Design of Software Systems	Z,ZK	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
B6B32PSI	Computer Networks	Z,ZK	5
B6B01PST	Probability and Statistics	Z,ZK	4
The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis.			
B6B36PJC	Programming in C/C++	KZ	4
B6B16PIT	Law for IT	Z,ZK	4

B6B16ZPD	Business Economics	Z,ZK	5
B6B36RSP	Management of Software Projects	Z,ZK	6

Code of the group: BSITPRO

Name of the group: Project

Requirement credits in the group: In this group you have to gain 6 credits

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

Credits in the group: 6

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
B6B36PRO	Semestral Project Ji í Vok ínek, Martin Tomášek, Ji í Šebek, Ivan Jelínek Ji í Vok ínek Ji í Vok ínek (Gar.)	KZ	6	2s	L,Z	P

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

B6B36PRO	Semestral Project	KZ	6
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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: BSITECTSZAJ

Name of the group: Exam in English

Requirement credits in the group:

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

Credits in the group: 0

Note on the group:

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

Characteristics of the courses of this group of Study Plan: Code=BSITECTSZAJ Name=Exam in English

B0B04B1K	English language B1 - classified assessment verifying of the student's skills of B1 level	KZ	0
B0B04B2Z	English language B2 - exam B2 Common European Framework: Can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options. Grammar and Vocabulary: word families, verb-noun collocations, complex noun phrases, countable and uncountable nouns, prefixes, it-clauses, reporting verbs, questions, modal verbs, conjunctions and sentence connectors, articles, prepositions, wh-noun clauses, relative clauses, if-clauses, passive voice, past perfect, -ing nouns Listening: picking up information, transferring information Reading: A technical text is presented. Students are required to show understanding the concept and vocabularies. Writing: Emphasis is put on the expression of ideas in the independent writing of paragraphs and short essays. Students should be able to present a short basic argument in written English. Oral Skills: Students are supposed to use the language independently and effectively in all situations giving their own opinions and defending their ideas and beliefs. A mixture of research and development, career oriented and general topics is presented. Examination: The examination consists of two parts: a) Written test ? based on grammar and lexicology, NOT TAKEN by the students whose success rate in both the summer semester tests (Midterm and Final) is above 80%. The written test is followed by the oral part. b) Oral part ? reading a technical text with understanding (study reading techniques ? skimming and scanning, comprehension and discussion questions based on the text, translation), oral interaction, comprehending the content of the spoken message.	Z,ZK	0

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 20

The role of the block: PV

Code of the group: BSITMPV

Name of the group: Compulsory subjects

Requirement credits in the group: In this group you have to gain at least 20 credits (at most 78)

Requirement courses in the group: In this group you have to complete at least 4 courses

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B6B39TDM	3D Modeling David Sedlá ek David Sedlá ek David Sedlá ek (Gar.)	KZ	5	0P+4C+4D	Z	PV
B6B32DSV	Distributed Computing Peter Macejko, Lukáš Kencl Lukáš Kencl Lukáš Kencl (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PV
B6B16FIP	Corporate finance Ji í Vaší ek, Josef ernohous, Old ich Starý Martin Dobiáš Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2D	L	PV
B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Martin Dobiáš Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	L	PV
B0B39MM1	Multimedia 1 Roman Berka, František Rund František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L	Z	PV
B6B37MM2	Multimedia 2 František Rund, Miloš Klíma František Rund Miloš Klíma (Gar.)	Z,ZK	5	2P+2L	L	PV
B6B32ST2	Advanced Networking Technologies Pavel Bezpalec, Leoš Bohá Martin Komárek Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	PV
B6B39PDA	Principles of mobile applications Ivo Malý Ivo Malý Ivo Malý (Gar.)	Z,ZK	6	2P+2C	L	PV
B6B16ISP	Business Process Management Pavel Náplava Jaroslav Sloup Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV
B0B39PGR	Computer graphics programming Petr Felkel, Jaroslav Sloup Jaroslav Sloup Petr Felkel (Gar.)	Z,ZK	6	2P+2C	L	PV
B6B36SPS	Computer Networks Administration Jan Kubr Jan Kubr Jan Kubr (Gar.)	Z,ZK	5	2P+2C+3D	L	PV
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PV
B6B32TKS	Telecommunications Networks Ivan Pravda, Jaromír Hrad Martin Komárek Jaromír Hrad (Gar.)	Z,ZK	5	2P + 2L + 2D	L	PV
B6B39TUR	User Interface Testing Adam Sporka Adam Sporka Adam Sporka (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV
B0B39KAJ	Client applications in JavaScript Ond ej Zára Ond ej Zára Ond ej Zára (Gar.)	Z,ZK	5	2P+2C	L	PV
B6B16ZMI	Marketing Research Ond ej Pešek Martin Dobiáš Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV

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

B6B39TDM	3D Modeling	KZ	5
B6B32DSV	Distributed Computing	Z,ZK	5
The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of application processes, programming interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.			
B6B16FIP	Corporate finance	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B0B39MM1	Multimedia 1	Z,ZK	6
The course gives students knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused on presentation of standards, technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content, interactive multimedia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course also contain problematics of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and methods.			
B6B37MM2	Multimedia 2	Z,ZK	5
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B39PDA	Principles of mobile applications	Z,ZK	6
Student who successfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on specific problems related to limitations and new capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is used. Course is not focused on introduction of basic programming techniques for mobile application development - it is expected that students already have this skills or will be gained by means of self-study.			
B6B16ISP	Business Process Management	Z,ZK	5
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be informed about basic conception and procedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 86 platforms.			
B6B32TKS	Telecommunications Networks	Z,ZK	5
B6B39TUR	User Interface Testing	Z,ZK	5
Students will learn the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in this field so that students can run their own (either quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer from. The tutorials cover the entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.			
B0B39KAJ	Client applications in JavaScript	Z,ZK	5

Name of the block: Elective courses

Minimal number of credits of the block: 0

The role of the block: V

Code of the group: BSITHJKTV

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

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A0B04GA	<i>Petra Jennings Dana Saláková (Gar.)</i>	Z	2	2C	Z,L	v
A0B04KA	English Conversation 2 <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	Z,L	v
B0B04A21	English Language A2-1 <i>Pavla Péterová Dana Saláková (Gar.)</i>	Z		2s	Z	v
B0B04A22	English Language A2-2 <i>Markéta Havlíková</i>	Z	0	2s	L	v
B0B04B11	English Language B1-1 <i>Pavla Péterová Dana Saláková (Gar.)</i>	Z	0	2s	Z	v
B0B04B12	English Language B1-2 <i>Pavla Péterová Dana Saláková (Gar.)</i>	Z	0	2C	L	v
B0B04B21	English Language B2-1 <i>Pavla Péterová Dana Saláková (Gar.)</i>	Z	3	2C	Z	v
B0B04B22	English Language B2-2 <i>Pavla Péterová Dana Saláková (Gar.)</i>	Z	3	2C	Z,L	v
A0B04OA	Technical English Course <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	Z,L	v
AE0B04C0	Czech Language 0 <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	*	v
B0B16ET1	Ethic 1 <i>Vladimír Sláma ka Vladimír Sláma ka Vladimír Sláma ka (Gar.)</i>	KZ	4	2P+2C	Z	v
B0B16FIL	Philosophy <i>Peter Zamarovský Josef ernohous Peter Zamarovský (Gar.)</i>	ZK	2	2P+0S	Z,L	v
B0B16FI1	Philosophy 1 <i>Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)</i>	KZ	4	2P+2S	Z	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 Havlíková 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
B0B39GRT	Graphical Design <i>Lucie Svobodová Lucie Svobodová Lucie Svobodová (Gar.)</i>	KZ	5	2P+2S	Z,L	v
B0B16HI1	History 1 <i>Roman Elnér, Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)</i>	KZ	4	2P+2S	Z	v
B0B16HTE	History of technology and economic <i>Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)</i>	ZK	2	2P+0S	Z,L	v
B0B16HT1	History of science and technology 1 <i>Marcela Efmertová, Jan Mikeš Jan Mikeš Marcela Efmertová (Gar.)</i>	KZ	4	2P+2S	Z	v
A0B04JAP	Japanese <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	*	v
B0B16MPS	Psychology <i>Jan Fiala Jan Fiala Jan Fiala (Gar.)</i>	Z,ZK	4	2P+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
B0B16MPL	Psychology for managers <i>Jan Fiala Jan Fiala Jan Fiala (Gar.)</i>	ZK	2	2P+0S	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		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
A0B04CA	Technical English for Pre-Intermediate <i>Markéta Havlíková</i>	Z	2	2C	L	v
TVV	Physical education	Z	0	0+2	Z,L	v
A003TV	Physical Education	Z	2	0+2	L,Z	v
TVV0	Physical education	Z	0	0+2	Z,L	v
TV-V1	Physical education	Z	1	0+2	Z,L	v
TVKZV	Physical Education Course	Z	0	7dní	Z	v
TVKLV	Physical Education Course	Z	0	7dní	L	v
A0B04C2Z	Czech language 2 <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	Z	v
A0B04C2L	Czech language 2 <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	L	v
A0B04CIN	<i>Markéta Havlíková 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=BSITHJKTV Name=Humanities, language courses, physical training

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.			
B0B04A21	English Language A2-1	Z	
The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic English.			
B0B04A22	English Language A2-2	Z	0
The course is open to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowledge of the English language.			
B0B04B11	English Language B1-1	Z	0
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoken English.			
B0B04B12	English Language B1-2	Z	0
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoken English.			
B0B04B21	English Language B2-1	Z	3
The course is suitable for students who have good knowledge of the material covered in secondary school in that language. Course objective: The course focuses on technical English and practising difficult grammar concepts.			
B0B04B22	English Language B2-2	Z	3
The course is suitable for students who have good knowledge of the material covered in secondary school. Course objective: The course focuses on technical English and practising difficult grammar.			
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.			
B0B16ET1	Ethic 1	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.			
B0B16FIL	Philosophy	ZK	2
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.			
B0B16F11	Philosophy 1	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
B0B39GRT	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.			
B0B16HI1	History 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
B0B16HT1	History of science and technology 1	KZ	4
A0B04JAP	Japanese	Z	2
B0B16MPS	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
B0B16MPL	Psychology for managers	ZK	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
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	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.			
A0B04CA	Technical English for Pre-Intermediate	Z	2
TVV	Physical education	Z	0
A003TV	Physical Education	Z	2
TVV0	Physical education	Z	0
TV-V1	Physical education	Z	1
TVKZV	Physical Education Course	Z	0
TVKLV	Physical Education Course	Z	0
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: BSITMPV4

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Zaměření: Informační systémy a podnikání

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
B6B16FIP	Corporate finance Jí í Vaší ek, Josef ernohous, Old ich Starý Martin Dobiáš Jí í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2D	L	v
B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Martin Dobiáš Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	L	v
B6B16ISP	Business Process Management Pavel Náplava Jaroslav Sloup Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	v

B6B16ZMI	Marketing Research <i>Ond ej Pešek Martin Dobiáš Ond ej Pešek (Gar.)</i>	Z,ZK	5	2P+2S+2D	Z	v
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Characteristics of the courses of this group of Study Plan: Code=BSITMPV4 Name=Compulsory subjects

B6B16FIP	Corporate finance	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B6B16ISP	Business Process Management	Z,ZK	5
B6B16ZMI	Marketing Research	Z,ZK	5

Code of the group: BSITMPV1

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group: Zaměření: Multimedialní technologie

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
B6B39TDM	3D Modeling <i>David Sedlá ek David Sedlá ek David Sedlá ek (Gar.)</i>	KZ	5	0P+4C+4D	Z	v
B0B39MM1	Multimedia 1 <i>Roman Berka, František Rund František Rund Roman Berka (Gar.)</i>	Z,ZK	6	2P+2L	Z	v
B6B37MM2	Multimedia 2 <i>František Rund, Miloš Klíma František Rund Miloš Klíma (Gar.)</i>	Z,ZK	5	2P+2L	L	v
B0B39PGR	Computer graphics programming <i>Petr Felkel, Jaroslav Sloup Jaroslav Sloup Petr Felkel (Gar.)</i>	Z,ZK	6	2P+2C	L	v

Characteristics of the courses of this group of Study Plan: Code=BSITMPV1 Name=Compulsory subjects

B6B39TDM	3D Modeling	KZ	5
B0B39MM1	Multimedia 1 The course gives students knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused on presentation of standards, technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content, interactive multimedia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course also contain problematics of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and methods.	Z,ZK	6
B6B37MM2	Multimedia 2	Z,ZK	5
B0B39PGR	Computer graphics programming	Z,ZK	6

Code of the group: BSITMPV2

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group: Zaměření: Programátor/architekt webových aplikací

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
B6B39PDA	Principles of mobile applications <i>Ivo Malý Ivo Malý Ivo Malý (Gar.)</i>	Z,ZK	6	2P+2C	L	v
B6B16ISP	Business Process Management <i>Pavel Náplava Jaroslav Sloup Pavel Náplava (Gar.)</i>	Z,ZK	5	2P+2S+2D	Z	v
B6B39TUR	User Interface Testing <i>Adam Sporka Adam Sporka Adam Sporka (Gar.)</i>	Z,ZK	5	2P+2S+2D	Z	v
B0B39KAJ	Client applications in JavaScript <i>Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)</i>	Z,ZK	5	2P+2C	L	v

Characteristics of the courses of this group of Study Plan: Code=BSITMPV2 Name=Compulsory subjects

B6B39PDA	Principles of mobile applications Student who successfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on specific problems related to limitations and new capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is used. Course is not focused on introduction of basic programming techniques for mobile application development - it is expected that students already have this skills or will be gained by means of self-study.	Z,ZK	6
B6B16ISP	Business Process Management	Z,ZK	5
B6B39TUR	User Interface Testing Students will learn the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in this field so that students can run their own (either quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer from. The tutorials cover the entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.	Z,ZK	5
B0B39KAJ	Client applications in JavaScript	Z,ZK	5

Code of the group: BSITMPV3

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Zaměření: Siťový specialista

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
B6B32DSV	Distributed Computing <i>Peter Macejko, Lukáš Kencl Lukáš Kencl Lukáš Kencl (Gar.)</i>	Z,ZK	5	2P + 2L + 2D	Z	v
B6B32ST2	Advanced Networking Technologies <i>Pavel Bezpalec, Leoš Bohá Martin Komárek Leoš Bohá (Gar.)</i>	Z,ZK	5	2P + 2C + 4D	Z	v
B6B36SPS	Computer Networks Administration <i>Jan Kubr Jan Kubr Jan Kubr (Gar.)</i>	Z,ZK	5	2P+2C+3D	L	v
B6B32SOS	Network Operating Systems <i>Pavel Troller Ján Ku erák Pavel Troller (Gar.)</i>	Z,ZK	5	2P + 2L + 2D	Z	v
B6B32TKS	Telecommunications Networks <i>Ivan Pravda, Jaromír Hrad Martin Komárek Jaromír Hrad (Gar.)</i>	Z,ZK	5	2P + 2L + 2D	L	v

Characteristics of the courses of this group of Study Plan: Code=BSITMPV3 Name=Compulsory subjects

B6B32DSV	Distributed Computing	Z,ZK	5
The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of application processes, programming interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.			
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be informed about basic conception and procedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 86 platforms.			
B6B32TKS	Telecommunications Networks	Z,ZK	5

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
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.			
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			
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.			
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
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
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.			
B0B04A21	English Language A2-1	Z	
The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic English.			
B0B04A22	English Language A2-2	Z	0
The course is open to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowledge of the English language.			
B0B04B11	English Language B1-1	Z	0
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoken English.			
B0B04B12	English Language B1-2	Z	0
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoken English.			
B0B04B1K	English language B1 - classified assessment verifying of the student's skills of B1 level	KZ	0
B0B04B21	English Language B2-1	Z	3
The course is suitable for students who have good knowledge of the material covered in secondary school in that language. Course objective: The course focuses on technical English and practising difficult grammar concepts.			
B0B04B22	English Language B2-2	Z	3
The course is suitable for students who have good knowledge of the material covered in secondary school. Course objective: The course focuses on technical English and practising difficult grammar.			
B0B04B2Z	English language B2 - exam	Z,ZK	0
B2 Common European Framework: Can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options. Grammar and Vocabulary: word families, verb-noun collocations, complex noun phrases, countable and uncountable nouns, prefixes, it-clauses, reporting verbs, questions, modal verbs, conjunctions and sentence connectors, articles, prepositions, wh-noun clauses, relative clauses, if-clauses, passive voice, past perfect, -ing nouns Listening: picking up information, transferring information Reading: A technical text is presented. Students are required to show understanding the concept and vocabularies. Writing: Emphasis is put on the expression of ideas in the independent writing of paragraphs and short essays. Students should be able to present a short basic argument in written English. Oral Skills: Students are supposed to use the language independently and effectively in all situations giving their own opinions and defending their ideas and beliefs. A mixture of research and development, career oriented and general topics is presented. Examination: The examination consists of two parts: a) Written test ? based on grammar and lexicology, NOT TAKEN by the students whose success rate in both the summer semester tests (Midterm and Final) is above 80%. The written test is followed by the oral part. b) Oral part ? reading a technical text with understanding (study reading techniques ? skimming and scanning, comprehension and discussion questions based on the text, translation), oral interaction, comprehending the content of the spoken message.			
B0B16ET1	Ethic 1	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.			
B0B16FI1	Philosophy 1	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.			
B0B16FIL	Philosophy	ZK	2
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.			
B0B16HI1	History 1	KZ	4
B0B16HT1	History of science and technology 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
B0B36DBS	Database Systems	Z,ZK	6
B0B36PJV	Programming in Java	Z,ZK	6
B0B39GRT	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.			
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
B0B39MM1	Multimedia 1	Z,ZK	6
The course gives students knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused on presentation of standards, technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content, interactive multimedia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course also contain problematics of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and methods.			
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analyze	Z,ZK	5
This course is an introduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications (graphing, Taylor polynomial) and definite/indefinite integral with its applications, sequences and series.			
B6B01PST	Probability and Statistics	Z,ZK	4
The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis.			
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
No advanced knowleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of combinatorics, set and graph theory. Then we proceed to formal construction of propositional calculus.			

B6B04PRE	Presentation	KZ	3
B6B16FIP	Corporate finance	Z,ZK	5
B6B16INS	Information Systems	KZ	4
<p>The goal of this course is to familiarise students with the information systems topic and information systems implementation principles. During the course, students are introduced to "on the market" existing types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other types of information systems.</p> <p>The fundamental part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, ways of information systems implementation and information system implementation based on the project management principles. The emphasis is on the initial customer analysis, customer insight and ability to decide whether it is better to implement any existing information system or to develop a new one from scratch. These factors determine the information system implementation success.</p> <p>At the end of the course information systems security, operation, support, maintenance, legislation impacts, and government information systems topics are discussed.</p>			
B6B16ISP	Business Process Management	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B6B16PIT	Law for IT	Z,ZK	4
B6B16ZMI	Marketing Research	Z,ZK	5
B6B16ZPD	Business Economics	Z,ZK	5
B6B32DSV	Distributed Computing	Z,ZK	5
<p>The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of application processes, programming interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.</p>			
B6B32KAB	Cryptography and Information Security	Z,ZK	5
<p>The Information Security course provides a complete source of information on the field of security of information systems and information technologies. The most of information in today society is created, transferred, stored in electronic form so information security is very important part of it. Technical background for information security is provided by cryptology.</p>			
B6B32PSI	Computer Networks	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
<p>Network operating systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be informed about basic conception and procedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 86 platforms.</p>			
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B32TKS	Telecommunications Networks	Z,ZK	5
B6B36DSA	Data Structures and Algorithms	Z,ZK	6
B6B36EAR	Enterprise Architectures	KZ	5
<p>The course offers an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most common enterprise architectures and related design patterns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of students will prepare a simple enterprise application as their semestral work.</p>			
B6B36NSS	Design of Software Systems	Z,ZK	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
B6B36PJC	Programming in C/C++	KZ	4
B6B36PRO	Semestral Project	KZ	6
<p>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.</p>			
B6B36RSP	Management of Software Projects	Z,ZK	6
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
<p>This course covers the topic of requirements engineering. Their gathering, analysis, documentation, management, ... Students also will gain knowledge on using the most widely spread graphic notation - UML.</p>			
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B36ZPR	Introduction to Project Management	KZ	3
<p>The course introduces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning, organization, etc.) students also get practical experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in the consecutive courses.</p>			
B6B37MM2	Multimedia 2	Z,ZK	5
B6B38ZPS	Basics of Computer Systems	Z,ZK	6
B6B39PDA	Principles of mobile applications	Z,ZK	6
<p>Student who successfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on specific problems related to limitations and new capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is used. Course is not focused on introduction of basic programming techniques for mobile application development - it is expected that students already have this skills or will be gained by means of self-study.</p>			
B6B39TDM	3D Modeling	KZ	5
B6B39TUR	User Interface Testing	Z,ZK	5
<p>Students will learn the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in this field so that students can run their own (either quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer from. The tutorials cover the entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.</p>			
B6B39ZMT	Foundations of Multimedia Production	KZ	3
<p>The course familiarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, video and audio, as well as the principles of graphic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, students gradually pass each section of the course divided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processing of multimedia content while they use several different types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained within the last day dedicated to composition rules within a Web project. After completing the course, students will carry out their own independent project and after its submission will be assessed.</p>			

B6B39ZWA		Z,ZK	5
The subject is focussing on the creation and maintenance of web presentations. It covers the creation of data structures (HTML), graphical design (CSS), and dynamics on the client side (Javascript). The course continues with server-side dynamics programmed in PHP 7 language. The students will learn how to handle forms and how to create a simple web application. The subject ends with an oral and written exam.			
BBAP20	Bachelor thesis	Z	20
BEZB	Safety in Electrical Engineering for a bachelor's degree	Z	0
The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.			
BEZZ	Basic health and occupational safety regulations	Z	0
The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.			
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/f3.html>

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