

Study plan

Name of study plan: Web a multimedia (STM-A7B)

Faculty/Institute/Others: Faculty of Electrical Engineering
 Department: Department of Computer Graphics and Interaction
 Branch of study guaranteed by the department: Web and Multimedia
 Garantor of the study branch: prof. Ing. Jiří Žára, 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
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	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

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
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

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
A7B16EPD	Business Economics	KZ	5	2+2s	L	P
A7B32KBE	Ciphers and information security	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

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
A7B39PRO	Semester Project <i>Jaroslav Sloup Jaroslav Sloup (Gar.)</i>	KZ	6	2S	Z	P
A7B36PRO	Semestral Project	KZ	6	2s	L,Z	P

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

A7B39PRO	Semester Project	KZ	6			
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:

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
A0B04B2Z	English language B2-exam <i>Pavla Péterová</i>	Z,ZK	0	0C	Z,L	P

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

A0B04B2Z	English language B2-exam	Z,ZK	0
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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: BSTMPOWM

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
A7B39WA1	Web Applications Development <i>Martin Klíma Martin Klíma Martin Klíma (Gar.)</i>	Z,ZK	6	2P+2C	Z	PO

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

A7B39WA1	Web Applications Development	Z,ZK	6
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Development of web applications. Designing web presentations using HTML/XHTML and CSS, scripting on the client side, creation of dynamic web applications on the server side.
Main languages used: XHTML, CSS, JavaScript, PHP.

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) <i>Tutors, authors and guarantors (gar.)</i>	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
A0B04A0Z	English language 0-1 <i>Dana Saláková</i>	Z	0	2s	Z	V
A0B04A0L	Czech language 0 <i>Pavla Péterová</i>	Z	0	2s	L	V
A0B04A1Z	English language 1-1 <i>Pavla Péterová</i>	Z	0	2C	Z	V
A0B04A1L	English language 1-2 <i>Pavla Péterová</i>	Z	0	2C	L	V
A7B04A2Z	English Language 2-1 <i>Petra Jennings</i>	Z	0	2C	Z	V
A0B04OA	Technical English Course <i>Petra Jennings 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
A0B16ET1	Ethic	KZ	4	2+2s	Z,L	v
A0B16FIL	Philosophy	ZK	2	2+0s	Z,L	v
A0B16FI1	Philosophy 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 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
A7B39GRT	Graphical Design	KZ	5	2P+2S	Z,L	v
A0B16HI1	History I	KZ	4	2+2s	Z,L	v
A0B16HTE	History of technology and economic	ZK	2	2+0s	Z,L	v
A0B04JAP	Japanese <i>Markéta Havlíková Dana Saláková (Gar.)</i>	Z	2	2C	*	v
A0B16MPL	Management psychology	ZK	2	2+0s	Z,L	v
A0B16MPS	Psychology	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		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 Saláková Dana Saláková (Gar.)</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
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>Jitka Pinková Dana Saláková (Gar.)</i>	Z	2	2C	Z	v
A0B04C2L	Czech language 2 <i>Jitka Pinková Dana Saláková (Gar.)</i>	Z	2	2C	L	v
A0B04CIN	Markéta Havlíková Dana Saláková (Gar.)	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=BSTMECTSHJKTV 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.			
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
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

A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04N1	German language 1	Z	2
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04ON	Professional German	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
<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	
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>			
A0B04FCE4	FCE4	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>			
A0B04FCE3	FCE 3	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 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.</p>			
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
<p>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.</p>			
A0B04CA	Technical English for Pre-Intermediate	Z	2
A003TV	Physical Education	Z	2
A0B03TV3	Physical Education 3	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>			
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
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/voliteline-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
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
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.			
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
A0B04B2Z	English language B2-exam	Z,ZK	0
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
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
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.			
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
A7B39WA1	Web Applications Development	Z,ZK	6
Development of web applications. Designing web presentations using HTML/XHTML and CSS, scripting on the client side, creation of dynamic web applications on the server side. Main languages used: XHTML, CSS, JavaScript, PHP.			
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>

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