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 combined

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-K

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 Roman meila Roman meila (Gar.)	Z	20	12S	L,Z	Р

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

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Code of the group: BSITBBE-K

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:

<u> </u>						
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 Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Р
BEZZ	Basic health and occupational safety regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р

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

BEZB	Safety in Electrical Engineering for a bachelor's degree		0				
he 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.

Code of the group: BSITBBE2-K

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-K

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:

Note on the gr	•					
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
BD6B36DBS	Database Systems	Z,ZK	6	14KP+6KC	L	Р
BD6B01LAG	Linear Algebra	Z,ZK	7	28KP+6KC	L	Р
BD6B04PRE	Presentation Dana Saláková	KZ	3	14+6	Z	Р
BD6B36PJV	Programming in Java	Z,ZK	6	14KP+9KC	L	Р
BD6B36SMP	Requirements Engineering	Z,ZK	6	14KP+9KC	L	Р
BD6B36TS1	Software Testing Miroslav Bureš	Z,ZK	5	14KP+6KC	L	Р
BD6B36ZAL	Introduction to Programming Ji í Vok ínek	Z,ZK	5	14KP+6KC	Z	Р
BD6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5	14KP+6KC	Z	Р
BD6B39ZMT	Foundations of Multimedia Production Roman Berka	KZ	3	6KP+6KL	. Z	Р
BD6B38ZPS	Basics of Computer Systems	Z,ZK	6	22P+8C	Z	Р
BD6B36ZPR	Introduction to Project Management Pavel Náplava	KZ	3	6KP+6KC	Z	Р
BD6B39ZWA	Foundations of Web Applications	Z,ZK	5	14KP+6KC	Z	Р

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

BD6B36DBS	Database Systems	Z,ZK	6
BD6B01LAG	Linear Algebra	Z,ZK	7
BD6B04PRE	Presentation	KZ	3
BD6B36PJV	Programming in Java	Z,ZK	6

The course builds on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course also focus on the object concept of the Java language. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with files and using generic types will be introduced. An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledge of Java is tested in the form of solving partial tasks and semester work, which will be submitted continuously through the source code version control system. The semester work scoring consists of points for the correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and reusability.

BD6B36SMP	Requirements Engineering	Z,ZK	6
BD6B36TS1	Software Testing	Z,ZK	5
BD6B36ZAL	Introduction to Programming	Z,ZK	5
BD6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
No advanced knowledge	es of mathematics are required at the heginning of this course. Using illustrative examples we build sufficient understanding of	f combinatorics s	et and graph

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.

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.

ΚZ

BD6B38ZPS	Basics of Computer Systems	Z,ZK	6			
BD6B36ZPR	Introduction to Project Management	KZ	3			
The course introduces	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 exper	iences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in	the consecutive of	courses.			

also get practical experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in the consecutive courses.

BD6B39ZWA Foundations of Web Applications Z,ZK 5

Code of the group: BSITMP23-K

Foundations of Multimedia Production

BD6B39ZMT

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 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BD6B36DSA	Data Structures and Algorithms	Z,ZK	6	14KP+9KC	L	Р
BD6B33EAR	Enterprise Architectures	KZ	5	14KP+6KC	Z	Р
BD6B36EAR	Enterprise Architectures	KZ	5	14KP+6KC	Z	Р
BD6B16INS	Information Systems Pavel Náplava Pavel Náplava (Gar.)	KZ	4	14KP+6KS	L	Р
BD6B32KAB	Cryptography and Information Security Tomáš Van k Tomáš Van k Tomáš Van k (Gar.)	Z,ZK	5	14P + 6C	Z	Р
BD6B01MAA	Mathematics Analysis	Z,ZK	5	14KP+6KC	Z	Р
BD6B36NSS	Design of Software Systems Ji í Vok ínek	Z,ZK	5	14KP+6KC	L	Р
BD6B36OMO	Object-oriented Design and Modeling	Z,ZK	6	14KP+6KC	Z	Р
BD6B32PSI	Computer Networks Pavel Bezpalec, Leoš Bohá Pavel Bezpalec Leoš Bohá (Gar.)	Z,ZK	5	14P + 6C	Z	Р
BD6B01PST	Probability and Statistics	Z,ZK	4	14KP+6KC	L	Р
BD6B16PIT	Law for IT Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	4	14KP+6KS	Z	Р
BD6B36PJC	Programming in C/C++	KZ	4	14KP+6KC	Z	Р
BD6B36RSP	Management of Software Projects Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	6	14KP+6KC	L	Р
BD6B16ZPD	Business Economics Martin Dobiáš, Ji í Vaší ek Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	5	14KP+6KS	S Z	Р

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

BD6B36DSA	Data Structures and Algorithms	Z,ZK	6					
BD6B33EAR	Enterprise Architectures	KZ	5					
The course offers an o	overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most cor	nmon enterprise ar	chitectures and					
related design patterns	s. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs	of students will pre	epare a simple					
enterprise application as their semestral work.								
BD6B36EAR	Enterprise Architectures	KZ	5					
The course offers an o	verview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most cor	nmon enterprise ar	chitectures and					
related design patterns	s. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs	of students will pre	epare a simple					
enterprise application	as their semestral work.							
BD6B16INS	Information Systems	KZ	4					
BD6B32KAB	Cryptography and Information Security	Z,ZK	5					
BD6B01MAA	Mathematics Analysis	Z,ZK	5					
This course is an intro	duction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applica	ations (graphing, Ta	ylor polynomial)					
and definite/indefinite	integral with its applications, sequences and series.							
BD6B36NSS	Design of Software Systems	Z,ZK	5					
BD6B36OMO	Object-oriented Design and Modeling	Z,ZK	6					
BD6B32PSI	Computer Networks	Z,ZK	5					
BD6B01PST	Probability and Statistics	Z,ZK	4					
BD6B16PIT	Law for IT	Z,ZK	4					
BD6B36PJC	Programming in C/C++	KZ	4					
BD6B36RSP	Management of Software Projects	Z,ZK	6					

Code of the group: BSITPRO-K 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
BD6B36PRO	Semestral Project Ji í Vok ínek, Ji í Šebek Ji í Vok ínek Ji í Vok ínek (Gar.)	KZ	6	2s	L,Z	Р

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

BD6B36PRO | 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 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 Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings (Gar.)	KZ	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р

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

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B0B04B1K	English language B1 - classified assessment	KZ	0
verifying of the stude	nt's skills of B1 level		
B0B04B27	English language B2 - exam	7 7K	0

I) The B2 English Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Study and Examination Rules and Regulations for Students at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully complete the study programme." In addition, this requires the "passing of an examination evaluated on the scale A, B, C, D, or E..." (SERR Part III, Article 6). II) According to the Common European Framework of Reference for Languages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 (Upper-Intermediate) level is one who "...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." III) Students who have successfully passed an approved international exam within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are then exempt from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/

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-K

Name of the group: Compulsory subjects

Requirement credits in the group: In this group you have to gain at least 20 credits (at most 133)

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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) 2P + 2L Distributed Computing Peter Macejko, Lukáš Kencl Peter Macejko Lukáš Kencl (Gar.) B6B32DSV Z.ZK Ζ 5 + 4D Corporate finance B6B16FIP 2P+2S+2D Z,ZK 5 L PV Ji í Vaší ek, Old ich Starý, Josef ernohous **Ji í Vaší ek** Ji í Vaší ek (Gar.) Corporate finance BD6B16FIP 5 Z,ZK 14KP+6KS L PV Old ich Starý **Decision Making Methods** BD6B16MPR Z,ZK 5 14KP+6KC Jaroslav Knápek

B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV
B0B39MM1	Multimedia 1 Libor Husník, Roman Berka, František Rund František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L+8D	Z	PV
B6B37MM2	Multimedia 2 František Rund, Jan Bedná, Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6D	L	PV
BD6B37MM2	Multimedia 2 František Rund, Miloš Klíma František Rund Miloš Klíma (Gar.)	Z,ZK	5	14KP+6KL	L	PV
B6B32ST2	Advanced Networking Technologies Leoš Bohá Zbyn k Kocur 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
BD6B16ISP	Business Process Management Pavel Náplava	Z,ZK	5	14KP+6KS	Z	PV
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í 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+8D	L	PV
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PV
B6B36SPS	Computer Networks Administration	Z,ZK	5	2P+2C+3D	L	PV
BD6B36SPS	Computer Networks Administration	Z,ZK	5	14KP+6KC	L	PV
B6B32TKS	Telecommunications Networks Jaromír Hrad, Ivan Pravda Ivan Pravda Jaromír Hrad (Gar.)	Z,ZK	5	2P + 2L + 2D	L	PV
BD6B32TKS	Telecommunications Networks Ivan Pravda	Z,ZK	5	14P + 6L	L	PV
B6B39TUR	User Interface Testing	Z,ZK	5	2P+2S+2D	Z	PV
B0B39KAJ	Client applications in JavaScript Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)	Z,ZK	5	2P+2C	L	PV
BD6B16ZMI	Marketing Research	Z,ZK	5	14KP+6KS	Z	PV
B6B16ZMI	Marketing Research Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV
B6B39TDM	3D Modeling David Sedlá ek David Sedlá ek (Gar.)	KZ	5	0P+4C+6D	Z	PV

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

B6B32DSV

B0B39MM1

Distributed Computing

Multimedia 1

access, deadlock detec	tion/avoidance, fault-tolerance, mobile computing, and security.		
B6B16FIP	Corporate finance	Z,ZK	5
BD6B16FIP	Corporate finance	Z,ZK	5
BD6B16MPR	Decision Making Methods	Z,ZK	5
B6B16MPR	Decision Making Methods	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

Z,ZK

Z,ZK

5

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
BD6B37MM2	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.

BD6B16ISP	Business Process Management	Z,ZK	5
B6B16ISP	Business Process Management	Z,ZK	5
B0B39PGR	Computer graphics programming	Z,ZK	6
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.

B6B36SPS	Computer Networks Administration	Z,ZK	5
BD6B36SPS	Computer Networks Administration	Z,ZK	5
B6B32TKS	Telecommunications Networks	Z,ZK	5
BD6B32TKS	Telecommunications Networks	Z,ZK	5

B6B391UR	User Interface Testing	∠,∠K	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 o	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 conduc	ting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.				
B0B39KAJ	Client applications in JavaScript	Z,ZK	5		
BD6B16ZMI	Marketing Research	Z,ZK	5		
B6B16ZMI	Marketing Research	Z,ZK	5		
B6B39TDM	3D Modeling	KZ	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-K

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:

Note on the g	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A0B04GA	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KA	English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	٧
B6B04A21	English language A2-1	Z	0	2s	Z	V
B6B04A22	English language A2-2	Z	0	2s	L	V
B6B04B11	English language B1-1	Z	0	2s	Z	V
B6B04B12	English language B1-2	Z	0	2C	L	V
B6B04B21	English language B2-1	Z	3	2C	Z	V
B6B04B22	English language B2-2	Z	3	2C	Z,L	V
A0B04OA	Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
AE0B04C0	Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04C2Z	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z	V
A0B04C2L	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	L	V
A0B04CIN	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF1	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F1	French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F2	French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F3	French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04JAP	Japanese Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04GN	German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN	German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	٧
A0B04KN2	German conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04N1	German language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N2	German language 2 Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N3	German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04ON	Professional German Petra Juna Jennings Dana Lisá (Gar.)	Z	2	2C	Z,L	V

	Pavla Péterová Pavla Péterová (Gar.)		_		_,_	1
A0B04CAE2	Certificate of Advanced English CAE 2 Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE3	Certificate of Advanced English CAE 3 Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE4	Certificate of Advanced English 4 Pavla Péterová	Z		2C	Z,L	V
A0B04FCE1	FCE 1 Petra Juna Jennings	Z	2	2C	*	٧
A0B04FCE2	FCE 2 Petra Juna Jennings	Z	2	2C	*	V
A0B04FCE4	FCE4 Dana Saláková	Z	2	2C	Z,L	V
A0B04FCE3	FCE 3 Petra Juna Jennings	Z	2	2C	Z,L	V
A0B04PZP	Preparation for stay in Germany Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04RET	Rhetoric Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR	Russian conversation Dana Saláková	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2 Dana Saláková	Z	2	2C	*	V
A0B04R1	Russian language 1 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R2	Russian language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R3	Russian language 3 Jitka Pinková	Z	2	2C	*	V
A0B04R4	Russian language 3 Dana Saláková	Z	2	2C	*	V
A0B04KS1	Spanish conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KS2	Spanish conversation 2	Z	2	2C	*	V
A0B04S1	Petra Juna Jennings Petra Juna Jennings (Gar.) Spanish language 1	Z	2	2C	*	V
A0B04S2	Petra Juna Jennings Petra Juna Jennings (Gar.) Spanish language 2	Z	2	2C	*	V
A0B04S3	Petra Juna Jennings Petra Juna Jennings (Gar.) Spanish language 3	Z	2	2C	*	V
A0B04S4	Petra Juna Jennings Petra Juna Jennings (Gar.) Spanish Language 4	Z	2	2C	*	V
A0B04CA	Petra Juna Jennings Petra Juna Jennings (Gar.) Technical English for Pre-Intermediate Dana Saláková	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
TV-V1		Z	1	0+2	Z,L	V
TVV0	Physical education					
	Physical education	Z	0	0+2	Z,L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V
A0B04GA The aim of this course is to supplement for students wh	extend and complement grammatical patterns covered in other English courses that a phase not yet passed the B2 examination and are interested in further study and additional control of the control of t	are intended for full			Z	2
	nglish Conversation 2 students who want to develop their communication skills. Students will be given the opposition on a variety of topics and themes. This course is not decired for local		e vocabular	 y they alrea	_	
new words and phrases, to	communicate on a variety of topics and themes. This course is not designed for begin			1	7	0
new words and phrases, to B6B04A21 Er	rglish language A2-1 ints who are beginners in their second language. Course objective: Achieving competi		sh.		Z	
new words and phrases, to B6B04A21 Er The course is open to stude B6B04A22 Er The course is open to stude B6B04B11 Er Course objective: Broadenir	nglish language A2-1	ence in basic Engli	their basic k		Z the English la	0
new words and phrases, to B6B04A21 Er The course is open to stude B6B04A22 Er The course is open to stude B6B04B11 Er Course objective: Broadenir English.	nglish language A2-1 Ints who are beginners in their second language. Course objective: Achieving competinglish language A2-2 Ints who are beginners in their second foreign language. The course objective is to designish language B1-1	ence in basic Engli evelop and sustain sing on text analysis	their basic k	ulary expans	Z fithe English land Z fisher; understal	anguage. 0 nding spoken

Z

2C

Z,L

Certificate of Advanced English CAE 1 Pavla Péterová Pavla Péterová (Gar.)

A0B04CAE1

B6B04B22	English language B2-2	Z	3
	or students who have good knowledge of the material covered in secondary school. Course objective: The course focuses of	n technical English	and practising
difficult grammar.			
A0B04OA	Technical English Course	Z	2
_	If for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare s matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English		
	short explanatory article, and a research article.	and practicing via	o diliciciit types
AE0B04C0	Czech Language 0	Z	2
The course is aimed to	wards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal o	of the course is to g	give the students
	oout pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases n	needed for everyday	communication
during their stay in the			
A0B04C2Z	Czech language 2	Z	2
	foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical ur	, ,	
A0B04C2L	Czech language 2 Czech, it further develops their language knowledge and skills to meet the needs of technical ur	Z	2
A0B04CIN	Toroign stations statisting in 62561, it future develops their language knowledge and skills to meet the needs of teermical di	Z	2
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04F1	French language 1	Z	2
A0B04F1	French language 2	Z	2
A0B04F3	French Language 3	Z	2
A0B04JAP	Japanese	Z	2
A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04N1		Z	2
A0B04N2	German language 1 German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04NN	Professional German	Z	2
A0B04CNE1	Certificate of Advanced English CAE 1	7	2
	s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers		_
	guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba		
	nguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
	CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours	_	_
	s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	ies. It is possible bu	ut not necessary
for obtaining arodit to to	oke CAE at British Council		,
	ake CAE at British Council.	7	
A0B04CAE2	Certificate of Advanced English CAE 2	Z s units 5-8. Studyin	2
A0B04CAE2 The aim of the course i		s units 5-8. Studyin	2 g for CAE helps
A0B04CAE2 The aim of the course i you to improve your lan	Certificate of Advanced English CAE 2 s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers	s units 5-8. Studyin sed on realistic tas	2 g for CAE helps ks and indicates
A0B04CAE2 The aim of the course i you to improve your lan the ability to use the lar	Certificate of Advanced English CAE 2 s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba	s units 5-8. Studyin sed on realistic tas able to understand	2 g for CAE helps ks and indicates d and produce
A0B04CAE2 The aim of the course i you to improve your lan the ability to use the lar texts of various types. Cas well as by employers	Certificate of Advanced English CAE 2 s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba nguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	s units 5-8. Studyin used on realistic tas able to understand ses taught and asso	2 g for CAE helps ks and indicates d and produce essed in English
A0B04CAE2 The aim of the course i you to improve your lan the ability to use the lar texts of various types. Cas well as by employers for obtaining credit to ta	Certificate of Advanced English CAE 2 s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba nguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries as Entitish Council. Student is allowed to enrol only into one CAE course during one semester.	s units 5-8. Studyin ised on realistic tas able to understand es taught and asso ies. It is possible bu	2 g for CAE helps ks and indicates d and produce essed in English ut not necessary
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A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2	Z	2
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0B04CA	Technical English for Pre-Intermediate	Z	2
TVV	Physical education	Z	0
A003TV	Physical Education	Z	2
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

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

Code

Note on the group: ~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách

http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

Completion

Credits

List of courses of this pass:

Name of the course

A003TV	Physical Education	Z	2
A0B04C2L	Czech language 2	Z	2
The course	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts.
A0B04C2Z	Czech language 2	Z	2
The cours	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	cal university stude	nts
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni		
	r language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based		
	he language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab		
1	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to	•	٠ ١
as well as by emple	overs who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	t is possible but no	t necessary
	for obtaining credit to take CAE at British Council.		
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni		
	r language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based		
	he language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab		
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to	-	-
as well as by emplo	overs who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	•	t 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 cou	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	, ,	r CAE helps
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co		
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 air	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		rame. 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
	ed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		
course focuses on in	mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	g the required skills	s needed for
A0D04E0E2	B2 ELF. FCE 3	7	2
A0B04FCE3	FOE 3 ed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Com	Z	1
	uages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics -	•	
	obtaining the required skills needed for B2 CEFR.	aa 0 000	, in goal of
A0B04FCE4	FCE4	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	pean Language F	rame. The
course focuses on it	mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	g the required skills	s needed for
	B2 ELF.		
A0B04GA		Z	2
The aim of this cou	irse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract		mainly as a
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese Japanese	Z	2
A0B04KA	English Conversation 2	Z	2
	aned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they	_	
	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
	ned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude	I	
about technical subj	ect matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and	l practicing via 3 di	fferent types
	of texts: an abstract, a short explanatory article, and a research article.		
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
-	ne subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the		
bachelors. This subj	ect will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologi so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	cal barriers for put	olic speaking
A0B04S1	Spanish language 1	Z	2
A0B04S1	Spanish language 2	Z	2
A0B04S2 A0B04S3	Spanish language 3	Z	2
A0B04S3 A0B04S4	·	Z	+
	Spanish Language 4	Z	2
AE0B04C0	Czech Language 0 It towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the	I	1
	n about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases need	=	
	during their stay in the Czech Republic.		
B0B04B1K	English language B1 - classified assessment verifying of the student's skills of B1 level	KZ	0
B0B04B2Z	English language B2 - exam	Z,ZK	0
1	compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Stu-		1 -
	dents at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully co	-	
_	quires the "passing of an examination evaluated on the scale A, B, C, D, or E" (SERR Part III, Article 6). II) According to the Comm		- 1
_	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve		
	can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field	-	
-	uency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options." III) Students who have succ		
-	within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon appro		
	from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fe		
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
B0B39MM1	Multimedia 1	Z,ZK	6
_	udents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused	•	
technologies, meth	nods and approaches commonly used in commercial and alternative creation processes. The presented topics include production processes.	ocess of multimed	ia content,

interactive multimed	lia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The co		
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B04A21	English language A2-1	7	0
DODO4AZ1	The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic E	_	0
B6B04A22	English language A2-2	Z	0
	in to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowled		_
B6B04B11	English language B1-1	Z	0
1	roadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	_	
,	English.		0 1
B6B04B12	English language B1-2	Z	0
Course objective: B	roadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	ansion; understan	ding spoken
	English.		
B6B04B21	English language B2-1	Z	3
The course is suital	ole for students who have good knowledge of the material covered in secondary school in that language. Course objective: The course	e focuses on techr	nical English
	and practising difficult grammar concepts.		
B6B04B22	English language B2-2	Z	3
The course is suita	ble for students who have good knowledge of the material covered in secondary school. Course objective: The course focuses on tec	chnical English an	d practising
	difficult grammar.		_
B6B16FIP	Corporate finance	Z,ZK	5
B6B16ISP	Business Process Management	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B6B16ZMI	Marketing Research	Z,ZK	5
B6B32DSV	Distributed Computing	Z,ZK	5
	sed on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of applica		
interfaces of com	munication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that	t assure causality,	exclusive
	access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.		1
B6B32SOS	Network Operating Systems	Z,ZK	5
	systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be informed		ception and
<u> </u>	rocedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 8		
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B32TKS	Telecommunications Networks	Z,ZK	5
B6B36SPS	Computer Networks Administration	Z,ZK	5
		·	
B6B37MM2	Multimedia 2	Z,ZK	5
B6B39PDA	Principles of mobile applications	Z,ZK	6
B6B39PDA Student who suc	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on s	Z,ZK specific problems	6 related to
B6B39PDA Student who suc limitations and new	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on a capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is	Z,ZK specific problems s used. Course is	6 related to not focused
B6B39PDA Student who suc limitations and new on introduction of	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on a capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is basic programming techniques for mobile application development - it is expected that students already have this skills or will be gain	Z,ZK specific problems is used. Course is ined by means of	6 related to not focused self-study.
B6B39PDA Student who suc limitations and new on introduction of B6B39TDM	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on a capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is basic programming techniques for mobile application development - it is expected that students already have this skills or will be gain 3D Modeling	Z,ZK specific problems s used. Course is ined by means of KZ	6 related to not focused self-study. 5
B6B39PDA Student who suc limitations and new on introduction of B6B39TDM B6B39TUR	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on a capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is basic programming techniques for mobile application development - it is expected that students already have this skills or will be gait 3D Modeling User Interface Testing	Z,ZK specific problems s used. Course is ined by means of KZ Z,ZK	6 related to not focused self-study. 5 5
B6B39PDA Student who suc limitations and new on introduction of B6B39TDM B6B39TUR Students will learn	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on a capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is basic programming techniques for mobile application development - it is expected that students already have this skills or will be gaited and application development. 3D Modeling User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in	Z,ZK specific problems s used. Course is ined by means of KZ Z,ZK this field so that s	6 related to not focused self-study. 5 5 tudents can
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BD6B36DSA	Data Structures and Algorithms	Z,ZK	6
BD6B36EAR	Enterprise Architectures	KZ	5
The course offers a	an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most commo	n enterprise archif	ectures and
related design pat	terns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of	students will prepa	ire a simple
	enterprise application as their semestral work.		_
BD6B36NSS	Design of Software Systems	Z,ZK	5
BD6B36OMO	Object-oriented Design and Modeling	Z,ZK	6
BD6B36PJC	Programming in C/C++	KZ	4
BD6B36PJV	Programming in Java	Z,ZK	6
The course builds o	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course al	so focus on the ob	ject concep
of the Java languag	e. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working wit	h files and using g	eneric type
	An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowled	•	
of solving partial ta	sks and semester work, which will be submitted continuously through the source code version control system. The semester work so		oints for the
	correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and		
BD6B36PRO	Semestral Project	KZ	6
	am work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization are		•
department/departi	ments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of	of the projects can	be found of
DDCDCCDCD	the web pages of the selected department. Within this course the project is also defended.	7.71/	
BD6B36RSP	Management of Software Projects	Z,ZK	6
BD6B36SMP	Requirements Engineering	Z,ZK	6
BD6B36SPS	Computer Networks Administration	Z,ZK	5
BD6B36TS1	Software Testing	Z,ZK	5
BD6B36ZAL	Introduction to Programming	Z,ZK	5
BD6B36ZPR	Introduction to Project Management	KZ	3
The course introd	uces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning	g, organization, etc	.) students
also get praction	cal experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in	the consecutive of	courses.
BD6B37MM2	Multimedia 2	Z,ZK	5
BD6B38ZPS	Basics of Computer Systems	Z,ZK	6
BD6B39ZMT	Foundations of Multimedia Production	KZ	3
The course fami	liarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, vide	eo and audio, as v	ell as the
principles of grap	phic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, s	tudents gradually	pass each
	se divided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processi	•	
•	different types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained with	•	
-	on rules within a Web project. After completing the course, students will carry out their own independent project and after its submiss		
BD6B39ZWA	Foundations of Web Applications	Z,ZK	5
BEZB	Safety in Electrical Engineering for a bachelor's degree	Z	0
	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation		-
	amentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to wor		.
BEZZ	Basic health and occupational safety regulations	Z	0
•	e worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech d by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of H		
willon was provide	d by the Rector's Office of the CTO. Safety is considered one of the basic duties of all employees and students. The knowledge of his regulations forms an integral and permanent part of qualification requirements. This program is obligatory.	zaim anu Occupat	ioriai Saiety
TV-V1	Physical education	Z	1
TVKLV	· · · · · · · · · · · · · · · · · · ·		1
	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Physical education

Physical education

For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2024-07-27, time 15:30.

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