Recomended pass through the study plan

Name of the pass: Software Engineering and Technology

Faculty/Institute/Others: Department: Pass through the study plan: Software Engineering and Technology Branch of study guranteed by the department: Common courses Guarantor of the study branch: Program of study: Welcome page Type of study: unknown full-time Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of se	mester: 1					
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
B6B04PRE	Presentation Petra Juna Jennings, Jitka Pinková Jitka Pinková Petra Juna Jennings (Gar.)	КZ	3	1P+1C	Z	Р
BEZZ	Basic Health and Occupational Safety Regulations Vladimír K la, Radek Havlí ek, Ivana Nová Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	z	Ρ
B6B36ZAL	Introduction to Programming Ji í Vok ínek	Z,ZK	5	2P+2C+2D	Z	Р
B6B01ZDM	Introduction to Discrete Mathematics Jaroslav Tišer Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
B6B39ZMT	Foundations of Multimedia Production Roman Berka, František Rund Roman Berka Roman Berka (Gar.)	KZ	3	4P+4L+2D	Z	Р
B6B38ZPS	Basics of Computer Systems Ji í Novák Ji í Novák Ji í Novák (Gar.)	Z,ZK	6	4P+2L+2D	Z	Р
B6B36ZPR	Introduction to Project Management Pavel Náplava	KZ	3	4P+4C+2D	Z	Р
B6B39ZWA	Foundations of Web Applications Martin Klíma, Martin Mudra Martin Klíma Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	Р

Number of sei	mester: 2					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Vladimír K la, Radek Havlí ek, Ivana Nová Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Ρ
B0B36DBS	Database Systems Martin imná Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	L	Ρ
B6B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Ρ
B0B36PJV	Programming in Java Martin Mudroch, Ji í Vok ínek, Ladislav Serédi Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7D	L	Ρ
B6B36SMP	Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Ρ
B6B36TS1	Software Testing Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	Ρ

Number of semester: 3

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
B0B04B2Z	English language B2 - exam Petra Juna Jennings, Markéta Havlí ková, Dana Saláková, Michael Ynsua Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Ρ
B6B36EAR	Enterprise Architectures Petr Kemen, Petr Aubrecht Petr Kemen Petr Kemen (Gar.)	KZ	5	2P+2C+2D	Z	Ρ
B6B01MAA	Mathematics Analysis Natalie Žukovec, Karel Pospíšil Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2D	Z	Ρ
B6B36OMO	Object-oriented design and Modeling David Kadle ek David Kadle ek (Gar.)	Z,ZK	6	2P+2C+4D	Z	Ρ
B6B32PSI	Computer Networks Zbyn k Kocur, Tomáš Van k, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	Z	Ρ
B6B36PJC	Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Karel Richta Karel Richta Karel Richta (Gar.)	KZ	4	2P+2C+2D	Z	Ρ
B6B16ZPD	Business Economics Martin Dobiáš, Ji í Vaší ek, Martin Horák, Blanka Ku erková Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	5	2P+2S+2D	Z	Ρ

emester: 4					
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 quarantors (gar)	Completion	Credits	Scope	Semester	Role
Data Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)	KZ	4	2P+2S+3D	L	Р
Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Ρ
Statistics and Probability	Z,ZK	4	2P+2S+1D	L	Р
Management of Software Projects Miroslav Bureš	Z,ZK	6	3P+2C+3D	L	Р
Povinn volitelné p edm ty B6B32DSV.B6B16FIP (see the list of groups below)	Min. cours.				PV
	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.) Data Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.) Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.) Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.) Statistics and Probability Management of Software Projects Miroslav Bureš	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.)CompletionData Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)Z,ZKInformation Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)KZDesign of Software Systems Jí Šebek Ji í Šebek Ji í Šebek (Gar.)Z,ZKStatistics and ProbabilityZ,ZKManagement of Software Projects Miroslav BurešZ,ZKPovinn volitelné p edm tyMin. cours.	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.)CompletionCreditsData Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)Z,ZK6Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)KZ4Design of Software Systems Ji í Šebek Ji í Šebek (Gar.)Z,ZK5Statistics and ProbabilityZ,ZK4Management of Software Projects Miroslav BurešZ,ZK6Povinn volitelné p edm ty Destropolytic for (in this for a labor)Min. cours.Min/MaxDestropolytic for (in this for a labor)Min/Max0	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.)CompletionCreditsScopeData Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)Z,ZK62P+3C+3DInformation Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)KZ42P+2S+3DDesign of Software Systems Ji í Šebek Ji í Šebek (Gar.)Z,ZK52P+2C+2DStatistics and ProbabilityZ,ZK63P+2C+3DManagement of Software Projects Miroslav BurešZ,ZK63P+2C+3DPovinn volitelné p edm tyMin. cours.Min/MaxMin/Max	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.)CompletionCreditsScopeSemesterData Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)Z,ZK62P+3C+3DLInformation Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)KZ42P+2S+3DLDesign of Software Systems Ji í Šebek Ji í Šebek (Gar.)Z,ZK52P+2C+2DLStatistics and ProbabilityZ,ZK63P+2C+3DLManagement of Software Projects Miroslav BurešZ,ZK63P+2C+3DLPovinn volitelné p edm tyMin. cours.Min/Max

Number of ser	nester: 5					
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
B6B32KAB	Cryptography and Information Security Tomáš Van k Ivan Pravda Tomáš Van k (Gar.)	Z,ZK	5	2P + 2L + 2D	z	Ρ
B6B16PIT	Law for IT Martin Dobiáš, Michal Briaský Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	4	3P+1S+1D	Z	Р
B6B36PRO	Semestral Project Ji í Vok ínek, Ji í Šebek, Ivan Jelínek, Martin Tomášek Ji í Vok ínek Ji í Vok ínek (Gar.)	KZ	6	2s	L,Z	Ρ
BSITMPV	Povinn volitelné p edm ty	Min. cours.	Min/Max			PV
DOITIVII V	B6B32DSV,B6B16FIP, (see the list of groups below)	4	20/78			FV
BSTMVOLSI	Malifalu é una dur fu	Min. cours.	Min/Max			V
	Volitelné p edm ty	0	0/999			v

Number of semes	ster: 6					
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 mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Р
BSITMPV	Povinn volitelné p edm ty B6B32DSV,B6B16FIP, (see the list of groups below)	Min. cours. 4	Min/Max 20/78			PV

BSTMVOLSI	Volitelné p edm ty	Min. cours.	Min/Max		N
BSTINIVOLSI	voliteine p edm ty	0	0/999		V

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)			Com	pletion	Credits	Scope	Semester	Role
BSIT					Min.	cours.	Min/Max	ĸ		51/
DOILI	VIPV	Povi	inn volitelné p edm ty			4	20/78			PV
B6B32DSV	Distributed	Computing	B6B16FIP	Corporate finance		B6B16M	PR D	ecision Mak	ng Methods	
B0B39MM1	Multimedia	1	B6B37MM2	Multimedia 2		B6B32S1	72 A	Advanced Networking Technologi		
B6B39PDA	Principles	of mobile application	B6B16ISP	Business Process Management	B0B39PGR Computer graphics pro			phics programr	ning	
B6B32SOS	Network O	perating Systems	B6B36SPS	Computer Networks Administration	n	B6B32Tk	(S Te	elecommunio	ations Network	(S
B6B39TUR	User Interf	ace Testing	B0B39KAJ	Client applications in JavaScrip		B6B16ZM	ЛI М	arketing Re	search	
B6B39TDM	3D Modelir	ng		-	I					
BSTMVOLSI					Min.	cours.	Min/Max	< Comparison of the second sec		
			Volitelné p edm ty			0	0/999			v

List of courses of this pass:

B0B04B2Z English language B2 - exam Z,ZK 0 17 he B2 English Exam is a computory subject of the foculty 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 computory subject of an examination resoluted on the scale A, B, C, D, of E (SER Part III, Article 6), III, According to the Commer European Famework of Reference of Language, ECPERN, an international standard to describing language ability, the definition of an English language learner wich has achieved the B2 (Upper-Intermediate) level is one who ace understand the main ideas of complex text on both concrete and abstract topics, including technical discussions. Illi Students who have successfully passed an approved international exam of Univor, and Sportal Students are then exampt from both the Writter Test and the Oral Part. For a list of approved international exams go the department website: http://jazykytle.cvut.cz/ 6 B0B36DDS Database Systems Z,ZK 6 The course is designed as a basic database ourse mainly aimed at the student ability to design a relational data model and to use the SQL language. The object on the Pit their Kondelege during the elaboration of a continuously wolmited seminates. Z,ZK 6 The course is designed as a basic database ourse mainly aimed at the student ability to design a relational data model and to use the SQL language. The object on their their termitter term inter ourse and text and approxed international exam you wolmation or a continuously wolmide seminates. 2 K 6 The course bide start on the course incl	Code	Name of the course	Completion	Credits
1) 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 TCH (CART III, Article 4), and subject so any observation in a compulsory subject is one whose completions in a necessary condition in order to successfully programme. In the study and marked to the scale A, B, C, D, or E (SERP Part III, Article 4), II, According to the Common European Framework of References 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 lobes of complex text on both concrete and abstract topics, including technical discussions in his/her field or specialisation. Can international exams one the degartment vebsite: http://agxty/elic/uritar/al.with a degere 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 explan a vebrain subject and the Carl Part. For a list of approved international exams go the degartment vebsite: http://agxty/elic/uritar/al.wite/elic/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mail.ac/mai	B0B04B2Z	English language B2 - exam	Z,ZK	0
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 References for Languages (CERR), 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 abstrat 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 eithers we 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 exampt from both the Writter Test and the Oral Part. For a list of approved international exams go the department website: http://jazykylel.cvut.cz/	I) The B2 English E		· ·	n Rules and
for Languages (CEFR), an international standard for describing language ability, the definition of an English language bainser 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 hisher field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quie 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 for years may present their certificate to the Department of Languages, Faculty of Electrical Engineering Upon approval, students are then exampt from both the Witter Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.ovut.cz/	Regulations for Stu	dents at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully con	nplete the study pro	ogramme. In
one who can understand the main ideas of complex text on bolt 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 of various options. III) Students who have successfully passed an approve dimernational exam within the past the years may present their certificate to the Department of Languages, Faculty of Electrical Engineering, Upon approval, students are then exempt from both the Writter Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fde.vuct.cz/	addition, this requir	es 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 Euro	pean Framework o	f Reference
of fluency and spontanelly 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 of disadvantages of various options. III) Students who have successfully passed an approved international exam within the past they verain may present their certificate to the Department of Languages. Faculty of Electrical Engineering Upon approval, students are then exempt from both the Writter Test and the Oral Part. For a list of approved international exams go the department website: http://jazykytel.cvut.cz/	for Languages (CI	EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2	2 (Upper-Intermedia	ate) level is
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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 Writter Test and the Oral Part. For a list of approved international exams go the department vebsite: http://jazyky.tle.vut.cz/ BOB36DBS Database Systems Z,ZK 6 The course is designed as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language for data definition as well as for data querying and to choose the appropriate degree of transaction isolation. Students will alse get acquianted with the most commonly used indexing techniques, database system architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar task. 60 BOB36PJV 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 solving partial tasks and semester work, which will be submitted continuously through the source code version control system. The semester work which will be submitted continuously through the source codes, their readability and reusability. BOB39KAJ Client applications in JavaScript Z,ZK 5 BOB39KAI Client applications in JavaScript Z,ZK 6 The course builds stowhedge necessary to produce and edit multimedia content using variety of tokal control. The course also contain problematico oratical stask and semonaly used in commerc	of fluency and spor	taneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed to	ext on a wide range	e of subjects
Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky/el.cvut.cz/ BOB36DBS Z,ZK 6 Database Systems Z,ZK 6 BOB36DBS Z,ZK 6 Database Systems Z,ZK 6 Database Systems Z,ZK 6 Database Systems Z,ZK 6 Dot colspan="2">Database Systems Z,ZK 6 BOB36PJV Programming firm 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 exceptions, event handling, and building a graphical interface. Basic library methods, working with files and using generic types with 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 to source codes, their readability and reusability. BOB39KAJ C_ZK 5 BOB39MM1 Multimedia and tale introduces and erricine work scoring consists of points for the course gives students knowledge necessary to produce and elit multimedia an	and explain a view	vpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an	approved internation	onal exam
BOB36DBS Database Systems Z,ZK 6 The course is designed as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language for data definition as well as for data querying and to choose the appropriate degree of transaction isolation. Studens will also get acquainted with the most commonly used indexing techniques, database system architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar task. Z/K 6 BOB36PJV Programming in Java Z/K 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 multimed continuously through the source code version control system. The semester work, which will be submitted continuously through the source code, scibit readability and reusability. 5 BOB39MA1 Client applications in JavaSCript Z,ZK 5 BOB39PGR Z,ZK 6 6 BoB39PGR Commercial and atternative creation processes. The presented topics include production process of multimedia content, the quiprement to record video, lighting devices and their control. The course also contain problematics of archintado. 2,ZK 6	within the past five	years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are the	n exempt from both	n the Written
The course is designed as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language or data definition as well as for data querying and to choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing techniques, database system architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar tax. BOB36PJV 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 is 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 socring 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. BOB39KAJ Z,ZK 5 BOB39MM1 Client applications in JavaScript Z,ZK 5 BOB39MM1 Multimedia a ontheu using variety of tools and creative methods. Lectures are focuse on presentation of standards, technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multime		Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/	•	
data querying and to choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing techniques, database system architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar task. BOB36PJV 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 modeled applications and their implementation. Practical excites and knowledge of Java is tested to the three orcerctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and reusability. BOB39KAJ Client applications in JavaScript Z,ZK 5 BOB39MM1 Multimedia applications in JavaScript Z,ZK 6 The course gives students knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused on presentation of standards. technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include producino process of multimedia content. The part of the course is also a project with use of presented technologies and methods. BOB39PGR Computer graphics programming Z,ZK 6 B6B01LAG	B0B36DBS	Database Systems	Z,ZK	6
architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar task. BOB36PJV 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 excretical 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. BOB39KAJ Z,ZK 5 BOB39MM1 Multimedia content, using variety of tools and creative methods. Lectures are focused on presentation of standards, technical explications, 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 an approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content, interactive multimedia applications, sequences and series. BOB39NEN </td <td>The course is desig</td> <td>ned as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language f</td> <td>or data definition a</td> <td>s well as for</td>	The course is desig	ned as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language f	or data definition a	s well as for
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B6B04PRE Presentation KZ 3		theory. Then we proceed to a brief formal construction of predicate calculus.		
	B6B04PRE	Presentation	KZ	3

B6B16FIP B6B16INS			
	Corporate finance	Z,ZK	5
	Information Systems	KZ	4
	to familiarise students with the information systems topic and information systems implementation principles. During the co		
	rpes of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other		-
	of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits,		-
	ation system implementation based on the project management principles. The emphasis is on the initial customer analysi		
	o implement any existing information system or to develop a new one from scratch. These factors determine the information		
	urse information systems security, operation, support, maintenance, legislation impacts, and government information system		
B6B16ISP	Business Process Management	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B6B16PIT	Law for IT	Z,ZK	4
B6B16ZMI	Marketing Research	Z,ZK	5
B6B16ZPD	Business Economics	Z,ZK	5
B6B32DSV	Distributed Computing	Z,ZK	5
	technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of appli		ogrammin
interfaces of communica	tion channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms t	that assure causality,	exclusive
	access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.		
B6B32KAB	Cryptography and Information Security	Z,ZK	5
The Information Security c	ourse provides a complete source of information on the field of security of information systems and information technologies	. The most of informat	tion in toda
society is created, transf	erred, stored in electronic form so information security is very important part of it. Technical background for information sec	urity is provided by cr	ryptology.
B6B32PSI	Computer Networks	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating systems	s, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be infor	med about basic con	ception ar
procedu	res in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the	x 86 platforms.	
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B32TKS	Telecommunications Networks	Z,ZK	5
B6B36DSA	Data Structures and Algorithms	Z,ZK	6
B6B36EAR	Enterprise Architectures	KZ	5
	view of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most comm	1	-
	particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of		
0	enterprise application as their semestral work.		•
B6B36NSS	Design of Software Systems	Z,ZK	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
B6B36PJC	Programming in C/C++	KZ	4
B6B36PRO	Semestral Project	KZ	6
	k in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization		-
	The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution		•
	the web pages of the selected department. Within this course the project is also defended.		
DCD2CDCD			
BOBJOKSP	Management of Software Projects	Z,ZK	6
B6B36RSP B6B36SMP	Management of Software Projects Analysis and Modeling of Software Requirements	,	-
B6B36SMP	Management of Software Projects Analysis and Modeling of Software Requirements c of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge	Z,ZK	6
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
B6B36SMP This course covers the topi	Analysis and Modeling of Software Requirements c of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge graphic notation - UML.	Z,ZK e on using the most wi	6
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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

compositi	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.							
B6B39ZWA	Foundations of Web Applications	Z,ZK	5					
The subject is focu	The subject is focussing on the creation and maintenance of web presentations. It covers the creation of data structures (HTML), graphical design (CSS), and dynamics on the clien							
side (Javascript)	. The course continues with server-side dynamics programmed in PHP 7 language. The students will learn how to handle forms and	how to create a sir	nple web					
application. The subject ends with an oral and written exam.								
BBAP20	Bachelor thesis	Z	20					
BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0					
The purpose of the	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation	n of it. This introduc	ctory course					
contains funda	mentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	on electrical equi	pment.					
BEZZ	Basic Health and Occupational Safety Regulations	Z	0					
The guidelines wer	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.							

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-04-18, time 11:20.