Recomended pass through the study plan

Name of the pass:

Faculty/Institute/Others: Faculty of Electrical Engineering

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: Software Engineering and Technology

Type of study: Bachelor combined

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 semester: 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
BD6B04PRE	Presentation Dana Saláková	KZ	3	14+6	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	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

Number of semester: 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	Р
BD6B36DBS	Database Systems	Z,ZK	6	14KP+6KC	L	Р
BD6B01LAG	Linear Algebra	Z,ZK	7	28KP+6KC	L	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

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 Dana Saláková, Petra Jennings, Michael Ynsua Petra Jennings Petra Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р
BD6B36EAR	Enterprise Architectures	KZ	5	14KP+6KC	Z	Р

BD6B01MAA	Mathematics Analysis	Z,ZK	5	14KP+6KC	Z	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
BD6B36PJC	Programming in C/C++	KZ	4	14KP+6KC	Z	Р
BD6B16ZPD	Business Economics Ji (Vaší ek, Martin Dobiáš Martin Dobiáš (Gar)	Z,ZK	5	14KP+6KS	Z	Р

Number of semester: 4

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
BD6B16INS	Information Systems Pavel Náplava Pavel Náplava (Gar.)	KZ	4	14KP+6KS	L	Р
BD6B36NSS	Design of Software Systems Ji í Vok ínek	Z,ZK	5	14KP+6KC	L	Р
BD6B01PST	Probability and Statistics	Z,ZK	4	14KP+6KC	L	Р
BD6B36RSP	Management of Software Projects Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	6	14KP+6KC	L	Р
BSITMPV-K	Povinn volitelné p edm ty B6B32DSV,B6B16FIP, (see the list of groups below)	Min. cours.	Min/Max 20/133			PV

Number of semester: 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
BD6B32KAB	Cryptography and Information Security Tomáš Van k Tomáš Van k (Gar.)	Z,ZK	5	14P + 6C	Z	Р
BD6B16PIT	Law for IT Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	4	14KP+6KS	Z	Р
BD6B36PRO	Semestral Project Ji í Šebek, Ji í Vok ínek Ji í Vok ínek (Gar.)	KZ	6	2s	L,Z	Р
BSITMPV-K	Povinn volitelné p edm ty B6B32DSV,B6B16FIP, (see the list of groups below)	Min. cours.	Min/Max 20/133			PV
BSTMVOLSI	Volitelné p edm ty	Min. cours.	Min/Max 0/999			V

Number of semester: 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-K	Povinn volitelné p edm ty B6B32DSV,B6B16FIP, (see the list of groups below)	Min. cours.	Min/Max 20/133			PV
BSTMVOLSI	Volitelné p edm ty	Min. cours.	Min/Max 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)	Completion	Credits	Scope	Semester	Role	
BSITMPV-K		Min. cours.	Min/Max			PV	
BSITIVIT V-K	Povinn volitelné p edm ty	4	20/133			PV	

B6B32DSV	Distributed Computing	B6B16FIP	Corporate finance	BD6B16FIP	Corporate finance
BD6B16MPR	Decision Making Methods	B6B16MPR	Decision Making Methods	B0B39MM1	Multimedia 1
B6B37MM2	Multimedia 2	BD6B37MM2	Multimedia 2	B6B32ST2	Advanced Networking Technologies
B6B39PDA	Principles of mobile application	BD6B16ISP	Business Process Management	B6B16ISP	Business Process Management
B0B39PGR	Computer graphics programming	B6B32SOS	Network Operating Systems	B6B36SPS	Computer Networks Administration
BD6B36SPS	Computer Networks Administration	B6B32TKS	Telecommunications Networks	BD6B32TKS	Telecommunications Networks
B6B39TUR	User Interface Testing	B0B39KAJ	Client applications in JavaScrip	BD6B16ZMI	Marketing Research
B6B16ZMI	Marketing Research	B6B39TDM	3D Modeling		

DCTMVOLCI	M.Pe. L. Comp. Lond	Min. cours.	Min/Max		v
BSTMVOLSI	Volitelné p edm ty	0	0/999		V

List of courses of this pass:

Code	Name of the course	Completion	Credits
B0B04B2Z	English language B2 - exam	Z,ZK	0
I) The B2 English E	xam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Stu	dy and Examination	n Rules and
-	idents at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully co		-
	equires the "passing of an examination evaluated on the scale A, B, C, D, or E" (SERR Part III, Article 6). II) According to the Comr	=	
_	uages (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	•	
-	luency 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 succeivithin the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approximately approx		
international exam	from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fe		пен ехетірі
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
B0B39MM1	Multimedia 1	Z,ZK	6
The course gives s	tudents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focuse	d on presentation o	f standards,
-	thods and approaches commonly used in commercial and alternative creation processes. The presented topics include production processes are commonly used in commercial and alternative creation processes.		
interactive multime	dia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The co	-	roblematics
	of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and		
B0B39PGR	Computer graphics programming	Z,ZK	6
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
B6B32SOS	nmunication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms the access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security. Network Operating Systems	Z,ZK	5
	systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be inform procedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 8		ception and
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
Student who su	ccessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on	specific problems r	elated to
limitations and nev	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	f basic programming techniques for mobile application development - it is expected that students already have this skills or will be ga	ained by means of s	elf-study.
B6B39TDM	3D Modeling	KZ	5
B6B39TUR	User Interface Testing	Z,ZK	5
Students will learn	the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in	this field so that st	udents can
run their own (eith	ner quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffe entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.	r from. The tutorials	cover the
BBAP20	Bachelor thesis	Z	20
BD6B01LAG	Linear Algebra	Z,ZK	7
BD6B01MAA	Mathematics Analysis	Z,ZK	5
	and definite/indefinite integral with its application, limits of functions, derivative and its application		_
BD6B01PST	Probability and Statistics	Z,ZK	4
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BD6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
	wleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of course. Then we proceed to formal construction of propositional calculus.	•	and graph
BD6B04PRE	Presentation	KZ	3
BD6B16FIP	Corporate finance	Z,ZK	5
BD6B16INS	Information Systems	KZ	4
BD6B16ISP	Business Process Management	Z,ZK	5
BD6B16MPR	Decision Making Methods	Z,ZK	5
BD6B16PIT	Law for IT	Z,ZK	4
BD6B16ZMI	Marketing Research	Z,ZK	5
BD6B16ZPD	Business Economics	Z,ZK	5
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BD6B32KAB	Cryptography and Information Security	Z,ZK	5
BD6B32PSI	Computer Networks	Z,ZK	5
BD6B32TKS	Telecommunications Networks	Z,ZK	5
BD6B36DBS	Database Systems	Z,ZK	6
BD6B36DSA	Data Structures and Algorithms	Z,ZK	6
BD6B36EAR	Enterprise Architectures	KZ	5
	an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most common	•	
elated design patt	erns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of s	tudents will prepa	are a simple
DDODOONOO	enterprise application as their semestral work.	7 71/	
BD6B36NSS	Design of Software Systems	Z,ZK	5
BD6B36OMO	Object-oriented Design and Modeling	Z,ZK	6
BD6B36PJC	Programming in C/C++	KZ	4
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BD6B36PJC BD6B36PJV The course builds of the Java language, will be introduced. A f solving partial tast BD6B36PRO Individual or teat epartment/department	Programming in C/C++ Programming in Java In the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course also the topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with the important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledges sks and semester work, which will be submitted continuously through the source code version control system. The semester work so correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and respect to the source codes. The project from the list of topics relevant to the studied specialization and ments. The project. Student selects the subject of their project from the list of topics relevant to the studied specialization and ments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the web pages of the selected department. Within this course the project is also defended. Management of Software Projects Requirements Engineering Computer Networks Administration Software Testing Introduction to Programming	KZ Z,ZK so focus on the ob- n files and using g ge of Java is teste pring consists of p eusability. KZ d provided by the f the projects can Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK	6 eject concepteneric type: d in the form points for the specific be found or 6 6 5 5 5
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The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.

BEZZ Basic health and occupational safety regulations Z 0

The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.

For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2024-05-21, time 09:57.