## 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: Welcome page Guarantor of the study branch: Program of study: Software Engineering and Technology Type of study: Bachelor 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 semes	ster: 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)       C         Tutors, authors and guarantors (gar.)       C		Credits	Scope	Semester	Role
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
B0B36ZAL	Introduction to Programming Ji í Vok ínek <b>Ji í Vok ínek</b> Ji í Vok ínek (Gar.)	Z,ZK	6	2P+2C+8D	Z	Ρ
B6B01ZDM	Introduction to Discrete Mathematics Jaroslav Tišer Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	5	2P+2S+2D	Z	Ρ
B6B39ZMT	Foundations of Multimedia Production Roman Berka, František Rund Roman Berka Roman Berka (Gar.)	KZ	3	4P+4L+2D	Z	Ρ
B6B38ZPS	Basics of Computer Systems Ji í Novák <b>Ji í Novák</b> Ji í Novák (Gar.)	Z,ZK	6	4P+2L+2D	Z	Ρ
B6B36ZSO	Introduction to Project Management Martin Dobiáš, Jitka Pinková, Pavel Náplava Pavel Náplava Pavel Náplava (Gar.)	КZ	5	2P+2C+5D	Z	Ρ
B6B39ZWA	Foundations of Web Applications Martin Klíma, Martin Mudra Martin Klíma Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	Р

Number of seme	ster: 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
B0B36DBS	Database Systems Martin imná Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	L	Р
B6B01LAG	Linear Algebra Ji í Velebil <b>Ji í Velebil</b> Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Р
B0B36PJV	Programming in Java Ji í Vok ínek, Ladislav Serédi, Martin Mudroch <b>Ji í Vok ínek</b> 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	Р
B6B36TS1	<b>Software Testing</b> Karel Frajták, Miroslav Bureš <b>Miroslav Bureš</b> 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.)		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	Ρ
B6B01MAA	Mathematics Analysis Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2C	Z	Р
B6B36OMO	Object-oriented design and Modeling David Kadle ek David Kadle ek David Kadle ek (Gar.)	Z,ZK	6	2P+2C+4C	Z	Р
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
B6B36PCC	Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Karel Richta Karel Richta Karel Richta (Gar.)	Z,ZK	5	2P+2C+4E	Z	Ρ
B0B32KTI	Communication Technology for IoT Lukáš Vojt ch, Ji í Vodrážka Lukáš Vojt ch Lukáš Vojt ch (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PS
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PS

Number of sem	ester: 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.)		Credits	Scope	Semester	Role
B6B36DSA	Data Structures and Algorithms Karel Richta Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Ρ
B6B16INS	Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)	KZ	4	2P+2S+3C	L	Ρ
B6B36NSS	Design of Software Systems Ji í Šebek <b>Ji í Šebek</b> Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2C	L	Ρ
B6B01PRA	Statistics and Probability Kate ina Helisová, Jakub Stan k, Miroslav Korbelá, Veronika Sobotíková Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S+1D	L	Ρ
B0B37NSI	Design of IoT systems Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P + 2L + 2D	L	PS
		Min. cours.				
2021_BSITPVS4	Povinn volitelné p edm ty - specializace Technologie internetu v cí B3B38LPE,B0B35LSP, (see the list of groups below)	2 Max. cours. 6	Min/Max 9/32			PV
2021_BSITVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of semes	ster: 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)       C         Tutors, authors and guarantors (gar.)       C		Credits	Scope	Semester	Role
B0M32KSB	Cryptography and Network Security Tomáš Van k Petr Hampl Tomáš Van k (Gar.)	Z,ZK	6	2P+2L+4D	Z	Р
B6B36PM2	Management of Software Projects Karel Frajták, Miroslav Bureš Miroslav Bureš (Gar.)	ΚZ	4	2P+2C+2D	Z	Р
B6BPROJ6	Semestral Project Ji í Šebek, Jaroslav Sloup, Petr Pošík Jaroslav Sloup Jaroslav Sloup (Gar.)	Z	6	2s	L,Z	Ρ
B2M32DSVA	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	6	2P + 2C	Z	PS
2021_BSITPVS4	Povinn volitelné p edm ty - specializace Technologie internetu v cí B3B38LPE,B0B35LSP, (see the list of groups below)	Min. cours. 2 Max. cours. 6	Min/Max 9/32			PV
2021_BSITVOL	Volitelné odborné p edm ty	Min. cours. 0	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
2021 BSITVOL	Volitelné odborné p edm ty	Min. cours.	Min/Max			V
2021_BSI1VOL		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	Credit	s Scope	Semester	Role
					Min.	cours.				
2021 BSI		Povinn volitelné p edm ty - specializace Technologie				2	Min/Ma	X		PV
2021_031	17 7 34		internetu v		Max	cours.	9/32			PV
						6				
B3B38LPE	Laboratorie	es of Industrial Elect	B0B35LSP	Logic systems and processors	B6B34MK2 Microcontr			<i><b>Microcontrolle</b></i>	rs	
B4B38NVS	Embedded	Systems Design	stems Design B6B32ST2 Advanced Networking Technologie		S	B6B39PDA Principles of m		nobile applicat	ion	
2021_BSI	TVOL	Volitelné odborné p edm ty		Min.	cours. 0	Min/Ma 0/999	x		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 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 re	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 Comm	ion European Fran	nework of					
Reference for Lang	uages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve	d the B2 (Upper-In	termediate)					
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. C	Can interact					
with a degree of fl	uency 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 succe	essfully passed an	approved					
international exam	within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon appro	val, students are t	hen 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/						
B0B32KTI	Communication Technology for IoT	Z,ZK	5					
The essence of IoT	technologies is the transfer of information, communication of things with each other and especially the possibility of developing new	types of services.	The course					
in a simplified form	presents the basics of digital communication, especially wireless, with a focus on specific communication protocols in IoT, not only in	n industrial application	tions. IoT is					
understood as a c	omplex system with the possibility of using existing components, development and presentation environments for data processing an	d visualization, inc	cluding the					
conce	pt of IoT as a service. Part of the exercise is acquaintance with specific technologies in the laboratory and project solutions individual	ly and in a team.						
B0B35LSP	Logic systems and processors	Z,ZK	6					
The course introduc	es computing resources' basic hardware structures, design, and architecture. It provides an overview of the possibilities of performing d	ata operations at th	ne hardware					
level and designin	g embedded processor systems with peripherals on modern FPGA programmable logic circuits, which are increasingly widely used to	oday. Students will	learn their					
description in VHI	DL, from logic to more complex sequential circuits to practical finite state machine (FSM) designs. They will also master the correct de	esign procedure us	sing circuit					
simulation. Practica	I problems are solved using development boards that hundreds of leading universities worldwide also use. The course ends with RISC	<ul> <li>V processor struct</li> </ul>	ture, cache,					
	and pipeline processing. [last updated January 2024]							
B0B36DBS	Database Systems	Z,ZK	6					
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 for	or data definition a	s 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 t	echniques, databa	ise system					
	architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar	task.						
B0B36PJV	Programming in Java	Z,ZK	6					
The course builds of	in the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course als	so focus on the obj	ect concept					
of the Java languag	e. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with	n files and using ge	eneric 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 r	eusability.						
B0B36ZAL	Introduction to Programming	Z,ZK	6					
B0B37NSI	Design of IoT systems	Z,ZK	5					

		7 71/	0
	Cryptography and Network Security	Z,ZK	6
society is created	curity course provides a complete source of information on the field of security of information systems and information technologies. Th d, transferred, stored in electronic form so information security is very important part of it. Technical background for information securi		
DOLIGO DOLIA			
B2M32DSVA	Distributed Computing	Z,ZK	6
	sed on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of applica		
interfaces of com	imunication 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
B3B38LPE	Laboratories of Industrial Electronics and Sensors	KZ	4
The objective of	the "Laboratories" is to introduce students in a playful and interactive way with basic blocks of an industrial sensor system - from the	sensor itself, throu	igh signal
processing circuits,	analog to digital signal conversion, software processing by a microcontroller up to the sending of the results to the superior system or di	atabase and their	presentatio
	to the user within the concept "Internet of Things".		
B4B38NVS	Embedded Systems Design	Z,ZK	6
	The course deals with design of embedded systems using ARM based microcontrollers.	_,	-
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
This course is an in	troduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications	s (graphing, Taylor	polynomia
	and definite/indefinite integral with its applications, sequences and series.		
B6B01PRA	Statistics and Probability	Z,ZK	5
	pe introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications in	•	
he basic parts of p	robability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part d	eals with the theo	ry of randoi
	distributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variab		
and tran	sformations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and t	testing hypothese	S
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
1	wleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of c	ombinatorics, set	and graph
	theory. Then we proceed to formal construction of propositional calculus.		
B6B16INS	Information Systems	KZ	4
	urse is to familiarise students with the information systems topic and information systems implementation principles. During the cours		1 .
-	isting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t		
	al part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa		-
	d information system implementation based on the project management principles. The emphasis is on the initial customer analysis,		
	better to implement any existing information system or to develop a new one from scratch. These factors determine the information system or to develop a new one from scratch.	-	-
	of the course information systems security, operation, support, maintenance, legislation impacts, and government information systems	-	
		-	
B6B32PSI	Computer Networks	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating	systems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be informe	ed about basic cor	nception an
p	rocedures in operating systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 8	6 platforms.	
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B34MK2	Microcontrollers	Z,ZK	5
B6B36DSA	Data Structures and Algorithms	Z,ZK	6
B6B36NSS	Design of Software Systems	Z,ZK	5
		۲,۲۲	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
	, , ,	Z,ZK	6
B6B36PCC	Programming in C/C++	Z,ZK Z,ZK	6 5
B6B36PCC B6B36PM2	Programming in C/C++ Management of Software Projects	Z,ZK Z,ZK KZ	6 5 4
B6B36PCC B6B36PM2 B6B36SMP	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements	Z,ZK Z,ZK KZ Z,ZK	6 5 4 6
B6B36PCC B6B36PM2 B6B36SMP	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or	Z,ZK Z,ZK KZ Z,ZK	6 5 4 6
B6B36PCC B6B36PM2 B6B36SMP This course covers	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML.	Z,ZK Z,ZK KZ Z,ZK n using the most w	6 5 4 6 ridely sprea
B6B36PCC B6B36PM2 B6B36SMP	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or	Z,ZK Z,ZK KZ Z,ZK n using the most w Z,ZK	6 5 4 6
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B6B36PCC B6B36PM2 B6B36SMP This course covers B6B36TS1 B6B36ZSO B6B38ZPS The first topic intro	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML. Software Testing Introduction to Project Management Basics of Computer Systems oduces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital t	Z,ZK Z,ZK Z,ZK n using the most w Z,ZK KZ Z,ZK technology, interna	6 5 4 6 idely sprea 5 5 6 al structure
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B6B36PCC B6B36PM2 B6B36SMP This course covers B6B36TS1 B6B36TS1 B6B36ZSO B6B38ZPS The first topic intro and function of the be introduced. Th	Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML. Software Testing Introduction to Project Management Basics of Computer Systems oduces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital to processor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor pe e computer architecture description, memories and their categorization in terms of functional principles and application use will be basic	Z,ZK Z,ZK KZ Z,ZK n using the most w Z,ZK KZ Z,ZK technology, internar offormance and the ased on this know	6 5 4 6 idely sprea 5 5 6 al structure eir limits wi ledge. The
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B6BPROJ6	Semestral Project	Z	6				
Individual or team work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization and provided by the specific							
department/departments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the projects can be found on							
the web pages of the selected department. Within this course the project is also defended.							
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	amentals 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 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/f3.html</u> Generated: day 2024-05-17, time 06:50.