# 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 seme	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) Tutors, authors and guarantors (gar.)	Completion	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 Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+2C+8D	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
B6B36ZSO	Introduction to Project Management Martin Dobiáš, Jitka Pinková, 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 sem	nester: 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	Р
B6B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš <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 (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36TS1	<b>Software Testing</b> Miroslav Bureš <b>Miroslav Bureš</b> (Gar.)	Z,ZK	5	2P+2C+2D	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 Markéta Havlí ková, Dana Saláková, Petra Juna Jennings, Michael Ynsua Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	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
B6B36PCC	Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Petr Ryšavý, Karel Richta Karel Richta Karel Richta (Gar.)	Z,ZK	5	2P+2C+4D	Z	Ρ
B6B36EAR	Enterprise Architectures Petr Kemen, Petr Aubrecht Petr Kemen Petr Kemen (Gar.)	KZ	5	2P+2C+2D	Z	PS
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	PS

#### Number of semester: 4

Number of Semes						
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
B6B36DSA	Data Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Ρ
B6B16INS	Information Systems Pavel Náplava, Jan Ko í <b>Pavel Náplava</b> Pavel Náplava (Gar.)	KZ	4	2P+2S+3D	L	Ρ
B6B36NSS	Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Ρ
B6B01PRA	Statistics and Probability Jakub Stan k, Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S+1D	L	Ρ
B0B39KAJ	Client applications in JavaScript Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)	Z,ZK	5	2P+2C	L	PS
		Min. cours.				
	Povinn volitelné p edm ty - specializace Enterprise Systémy	2	Min/Max			51
2021_BSITPVS1	B2M32PST,B6B39PDA, (see the list of groups below)	Max. cours.	9/26			PV
		5				

Number of seme	ester: 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 Ivan Pravda Tomáš Van k (Gar.)	Z,ZK	6	2P+2L+4D	Z	Р
B6B36PM2	Management of Software Projects Miroslav Bureš Miroslav Bureš (Gar.)	KZ	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	Р
B2M32DSVA	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	6	2P + 2C	Z	PS
		Min. cours.				
	Povinn volitelné p edm ty - specializace Enterprise Systémy	2	Min/Max			5) (
2021_BSITPVS1	B2M32PST,B6B39PDA, (see the list of groups below)	Max. cours.	9/26			PV
		5				
		Min. cours.	Min/Max			
2021_BSITVOL	Volitelné odborné p edm ty	0	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	Ρ
	Volitelné odborné p edm ty	Min. cours.	Min/Max			N/
2021_BSITVOL		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
2021_BSITPVS1 Po						cours. 2	Min/Ma	ix		
		Povinn volitelné p edm ty - specializace Enterprise Systémy			Max.	cours. 5	9/26			PV
B2M32PST	Advanced	Networking Technologies	B6B39PDA	Principles of mobile application		B0B39S	PS	Computer Net	works Adminis	tration
B6B32UOP	Unix Opera	ating Systems	B6B39ZAN	Basic Android development						
2021_BS	ITVOL	Volit	elné odborne	épedm ty	Min.	cours. 0	Min/Ma 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 Stur	dy and Examination	n Rules and
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	plete the study pro	ogramme. In
	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	-	
	EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2		-
	stand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisal		•
	ntaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed to	-	-
	vpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an		
within the past live	years may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon approval, students are the Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/	n exempt from both	i the written
B0B36DBS		Z.ZK	6
	Database Systems gned as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language f	. , .	-
	to choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing		
	architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminal		oo oyotom
B0B36PJV	Programming in Java	Z,ZK	6
	bon the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course al	· · ·	-
	je. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working wit		
	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	oring consists of p	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	reusability.	
B0B36ZAL	Introduction to Programming	Z,ZK	6
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
B0B39SPS	Computer Networks Administration	KZ	5
B0M32KSB	Cryptography and Network Security	Z,ZK	6
The Information Se	curity course provides a complete source of information on the field of security of information systems and information technologies. T	he most of informat	tion in today
society is created	d, transferred, stored in electronic form so information security is very important part of it. Technical background for information secur	ity is provided by c	ryptology.
B2M32DSVA	Distributed Computing	Z,ZK	6
The course is focu	sed on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of applica	tion processes, pro	ogramming
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.		
B2M32PST	Advanced Networking Technologies	Z,ZK	6
	Network Technologies expands students' knowledge of modern network technologies. The course is practically oriented and focused		
	k protocols as used in modern data networks of today and tomorrow. Students will gain practical experience with the issues like Inter	-	
networks, multica	st routing, IPv6, and MPLS networks. Part of the course is also devoted to a detailed explanation of transport protocols TCP/UDP and	d a manner in whic	h software
	applications can access transportation services of TCP/IP data networks.		

B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
his 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
	be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications in	-	
	robability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part d		-
	distributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variab sformations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and t	-	
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	,	-
	theory. Then we proceed to a brief formal construction of predicate calculus.		ana grapi
B6B16INS	Information Systems	KZ	4
1	urse is to familiarise students with the information systems topic and information systems implementation principles. During the cours		1 .
The fundament nplementation and ecide whether it is	isting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other to 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 sy f the course information systems security, operation, support, maintenance, legislation impacts, and government information system	ys of information customer insight a stem implementat	systems and ability ion succes
B6B16ISP	Business Process Management	Z,ZK	5
B6B32PSI	Computer Networks	Z,ZK	5
B6B32UOP	Unix Operating Systems	KZ	4
		Z,ZK	
B6B36DSA	Data Structures and Algorithms		6
B6B36EAR	Enterprise Architectures	KZ	5
	an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most common terns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of s enterprise application as their semestral work.	-	
B6B36NSS	Design of Software Systems	Z,ZK	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
B6B36PCC	Programming in C/C++	Z,ZK	5
B6B36PM2		KZ	4
	Management of Software Projects		
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
	the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML.		
B6B36TS1	Software Testing		
	•	Z,ZK	5
B6B36ZSO	Introduction to Project Management	KZ	5
B6B36ZSO tudents are introd	Introduction to Project Management luced to the basics of project management, which can be used not only in the field of IT projects. Students will also gain practical exp	KZ erience and know	5 /ledge in t
B6B36ZSO tudents are introd area of teamw	Introduction to Project Management luced to the basics of project management, which can be used not only in the field of IT projects. Students will also gain practical exp ork (e.g. planning, team organization) and basics of legal and economic aspects of the project. The course also includes an introduct	KZ erience and know ion to presentatio	5 vledge in tl n skills.
B6B36ZSO tudents are introd area of teamw B6B38ZPS	Introduction to Project Management luced to the basics of project management, which can be used not only in the field of IT projects. Students will also gain practical exp ork (e.g. planning, team organization) and basics of legal and economic aspects of the project. The course also includes an introduct Basics of Computer Systems	KZ erience and know ion to presentatio Z,ZK	/ledge in tl n skills. 6
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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 gualification requirements. This program is obligatory					

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-04-05, time 00:29.