# 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: Welcome page Garantor of the study branch: Program of study: Software Engineering and Technology Type of study: Bachelor full-time Required credits: 169 Elective courses credits: 11 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: 137 The role of the block: P

Code of the group: 2021\_BSITBAP 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 mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Р

Ζ

20

Characteristics of the courses of this group of Study Plan: Code=2021\_BSITBAP Name=Bachelor Project

BBAP20	Bachelor thesis
00/(120	Duchcior thesis

Code of the group: 2021 BSITBBE Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

Requirement courses in the group:

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
BEZB	Safety in Electrical Engineering for a bachelor's degree Ivana Nová, Radek Havlí ek, Vladimír K la <b>Radek Havlí ek</b> 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=2021\_BSITBBE Name=Safety of the bachelor's studies

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 of it. This introductory course						
contains fundamentals	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: 2021\_BSITP

Name of the group: Compulsory subjects of the programme

Requirement credits in the group: In this group you have to gain 117 credits

Requirement courses in the group: In this group you have to complete 22 courses

Credits in the group: 117

Note on the group:

Note on the gro	•					
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
B0B36DBS	Database Systems Martin imná Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4C	L	Р
B6B36DSA	Data Structures and Algorithms Karel Richta Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3E	L	Р
B6B16INS	Information Systems Pavel Náplava, Jan Ko í <b>Pavel Náplava</b> Pavel Náplava (Gar.)	КZ	4	2P+2S+3D	L	Р
B0M32KSB	Cryptography and Network Security Tomáš Van k Petr Hampi Tomáš Van k (Gar.)	Z,ZK	6	2P+2L+4C	Z	Р
B6B01LAG	Linear Algebra Ji í Velebil <b>Ji í Velebil</b> Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Ρ
B6B01MAA	Mathematics Analysis Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
B6B36NSS	Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
B6B36OMO	Object-oriented design and Modeling David Kadle ek David Kadle ek David Kadle ek (Gar.)	Z,ZK	6	2P+2C+4D	Z	Р
B6B32PSI	Computer Networks Tomáš Van k, Leoš Bohá , Zbyn k Kocur 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
B0B36PJV	Programming in Java Ji í Vok ínek, Martin Mudroch, Ladislav Serédi <b>Ji í Vok ínek</b> Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7C	L	Ρ
B6B36PM2	Management of Software Projects Miroslav Bureš, Karel Frajták Miroslav Bureš Miroslav Bureš (Gar.)	KZ	4	2P+2C+2D	Z	Р
B6B36SMP	Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6BPROJ6	Semestral Project Ji í Šebek, Jaroslav Sloup, Petr Pošík Jaroslav Sloup Jaroslav Sloup (Gar.)	Z	6	2s	L,Z	Р
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
B6B36TS1	<b>Software Testing</b> Miroslav Bureš, Karel Frajták <b>Miroslav Bureš</b> Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2C	L	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	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.)	КZ	3	4P+4L+2C	Z	Р
B6B38ZPS	Basics of Computer Systems Ji í Novák Ji í Novák Ji í Novák (Gar.)	Z,ZK	6	4P+2L+2C	Z	Р
B6B36ZSO	Introduction to Project Management Pavel Náplava, Martin Dobiáš, Jitka Pinková Pavel Náplava Pavel Náplava (Gar.)	КZ	5	2P+2C+5C	Z	Ρ
B6B39ZWA	Foundations of Web Applications Martin Klima, Martin Mudra Martin Klima Martin Klima (Gar.)	Z,ZK	5	2P+2C+3C	Z	Р

### Characteristics of the courses of this group of Study Plan: Code=2021\_BSITP Name=Compulsory subjects of the programme

B0B36DBS	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 fo						
data querying and to ch	loose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexin	g techniques, dat	abase system			
architecture and their m	nanagement. They will verify their knowledge during the elaboration of a continuously submitted seminar task.					
B6B36DSA	Data Structures and Algorithms	Z,ZK	6			
B6B16INS	Information Systems	KZ	4			
The goal of this course	is to familiarise students with the information systems topic and information systems implementation principles. During the co	ourse, students ar	e introduced to			
"on the market" existing	types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and oth	er types of informa	ation systems.			
The fundamental part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, ways of information systems						
implementation and information system implementation based on the project management principles. The emphasis is on the initial customer analysis, customer insight and ability to						
decide whether it is bett	er to implement any existing information system or to develop a new one from scratch. These factors determine the information	n system impleme	ntation success.			
At the end of the course	e information systems security, operation, support, maintenance, legislation impacts, and government information systems to	pics are discusse	d.			

B0M32KSB	Cryptography and Network Security	Z,ZK	6
	rity course provides a complete source of information on the field of security of information systems and information technologie		rmation in toda
society is created, trar	nsferred, stored in electronic form so information security is very important part of it. Technical background for information secu	irity is provided by	cryptology.
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	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 applicat	· · ·	
and definite/indefinite	integral with its applications, sequences and series.		
B6B36NSS	Design of Software Systems	Z,ZK	5
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6
B6B32PSI	Computer Networks	Z,ZK	5
B6B36PCC	Programming in C/C++	Z,ZK	5
B0B36PJV	Programming in Java	Z,ZK	6
	the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course		
	The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working		
	important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and know s and semester work, which will be submitted continuously through the source code version control system. The semester work	-	
	ency of the code, as well as points that take into account the quality of the source codes, their readability and reusability.	Consists	
		<b>V7</b>	
B6B36PM2	Management of Software Projects	KZ	4
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
	e topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledg	e on using the mo	st widely sprea
graphic notation - UM			
B6BPROJ6	Semestral Project	Z	6
	rk in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization and		-
department/departme	nts. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution	on of the projects	can be found o
4			
	selected department. Within this course the project is also defended.		
B6B01PRA	Statistics and Probability	Z,ZK	5
B6B01PRA The students will be ir	Statistics and Probability troduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application	is in practice. The	course covers
B6B01PRA The students will be ir the basic parts of prob	Statistics and Probability the theory of probability and mathematical statistics, namely to the basic computing methods and their application pability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part	hs in practice. The art deals with the th	course covers neory of randor
B6B01PRA The students will be ir the basic parts of prob variables and their dist	Statistics and Probability ntroduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application pability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next pa- tributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random va-	hs in practice. The art deals with the th ariables, their indep	course covers neory of randor
B6B01PRA The students will be ir the basic parts of prob variables and their dis and transformations. F	Statistics and Probability ntroduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application pability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part tributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random vary probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing l	ns in practice. The art deals with the the ariables, their indep hypotheses.	course covers neory of randor pendence, sum
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B6B01PRA The students will be ir the basic parts of prob variables and their dist and transformations. F B6B36TS1 B0B36ZAL B6B01ZDM	Statistics and Probability         Introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part is tributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random valore babilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing         Software Testing         Introduction to Programming         Introduction to Discrete Mathematics	is in practice. The art deals with the the ariables, their indep hypotheses. Z,ZK Z,ZK Z,ZK	course covers neory of randor nendence, sum 5 6 5 5
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B6B01PRA The students will be in the basic parts of prob variables and their dist and transformations. F B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowleg theory. Then we proce B6B39ZMT The course familiarize principles of graphic d section of the course of they use several differ composition rules with	Statistics and Probability         Introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part is tributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random vale         Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing I         Software Testing         Introduction to Programming         Introduction to Discrete Mathematics         ges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of the formal construction of propositional calculus.         Foundations of Multimedia Production         us students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, vid lesign and its implementation in a web environment. The course is organized within the block teaching when, within four days, stivided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processing of instruments at the application level and at the level of simple code. All students will apply the knowledge gained win a Web project. After completing the course, students will carry out their own independent project and after its submission within a focus on independent project and after its submission within a Web project. After completing the course, students will carry out their own independent project and after its submission with a focus on independent project and after its su	s in practice. The art deals with the the ariables, their indep hypotheses. Z,ZK Z,ZK C,ZK f combinatorics, se KZ leo and audio, as we students gradually essing of multimed ithin the last day d ill be assessed.	course covers neory of randor pendence, sum 5 6 5 et and graph 3 well as the pass each ia content whil edicated to
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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 Jennings <b>Petra Jennings</b> Petra Jennings (Gar.)	ΚZ	0	0C	Z,L	Р

B0B04B2Z	English language B2 - exam Michael Ynsua, Dana Saláková, Petra Jennings Petra Jennings Petra Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р
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#### Characteristics of the courses of this group of Study Plan: Code=2021\_BSITECTSZAJ Name=Exam in English

B0B04B1K	English language B1 - classified assessment	KZ	0			
verifying of the student	s skills of B1 level					
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 Examir	nation Rules and			
Regulations for Student	s at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully	/ complete the stu	udy programme."			
In addition, this requires	s the "passing of an examination evaluated on the scale A, B, C, D, or E" (SERR Part III, Article 6). II) According to the Con	nmon European F	ramework of			
Reference for Language	es (CEFR), an international standard for describing language ability, the definition of an English language learner who has ach	ieved the B2 (Upp	er-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 fit	eld of specialisation	on. Can interact			
with a degree of fluency	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: Povinné p edm ty specializace Minimal number of credits of the block: 22 The role of the block: PS

Code of the group: 2021\_BSITPS2

Name of the group: Compulsory subjects - specialization Multimedia and Virtual Reality Technologies Requirement credits in the group: In this group you have to gain 22 credits

Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 22

Note on the group:

Specialization Multimedia and Virtual Reality Technologies

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
B0B39MM1	Multimedia 1 Roman Berka, František Rund, Libor Husník <b>František Rund</b> Roman Berka (Gar.)	Z,ZK	6	2P+2L+8D	Z	PS
B0B39TVS	<b>Tvorba virtuálních sv t</b> David Sedlá ek <b>David Sedlá ek</b> David Sedlá ek (Gar.)	KZ	4	2P+4L+18D	L	PS
B0B39VAR	<b>3D Modeling and Virtual Reality</b> David Sedlá ek, Ji í Žára <b>David Sedlá ek</b> David Sedlá ek (Gar.)	Z,ZK	6	2P+2C+8D	Z	PS
BE4B39VGO	Creating graphic content Ladislav molík Ladislav molík (Gar.)	Z,ZK	6	2P+2C+8D	Z	PS

# Characteristics of the courses of this group of Study Plan: Code=2021\_BSITPS2 Name=Compulsory subjects - specialization Multimedia and Virtual Reality Technologies

B0B39MM1	Multimedia 1	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 a	and approaches commonly used in commercial and alternative creation processes. The presented topics include production	process of multim	edia content,				
interactive multimedia a	pplications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The	e course also cont	ain problematics				
of archivation and distril	pution of multimedia content. The part of the course is also a project with use of presented technologies and methods.						
B0B39TVS	Tvorba virtuálních sv t	KZ	4				
B0B39VAR	3D Modeling and Virtual Reality	Z,ZK	6				
Students get an overvie	w of basic techniques for modeling spatial objects and scenes. They learn to create simple, but highly interactive and animat	ed objects in a vir	tual space.				
Theoretical background	is practiced using VRML/X3D specification. Besides fully 3D virtual environments, other approaches like augmented reality or	panoramic image	s are introduced.				
The aim is also to make	connections between virtual reality browsers and other software components widely used on the web.						
BE4B39VGO	Creating graphic content	Z,ZK	6				
The aim of this course is to provide theory behind geometric modeling and modeling of materials, give students an overview of methods used in the process of creating 2D and 3D							
graphics and how to apply those methods in praxis. At the seminars, students will learn how to design and create three-dimensional scene, create and apply textures imitating materials							
(e.g., wall finishes, woo	(e.g., wall finishes, wood, sky) and geometrical details, and position and set-up lights in the scene.						

Name of the block: Compulsory elective courses Minimal number of credits of the block: 10 The role of the block: PV

Code of the group: 2021\_BSITPVS2

Name of the group: Compulsory elective subjects - specialization Multimedia and Virtual Reality Technologies Requirement credits in the group: In this group you have to gain at least 10 credits (at most 22) Requirement courses in the group: In this group you have to complete at least 2 courses (at most 4)

## Credits in the group: 10 Note on the group:

Specialization Multimedia and Virtual Reality Technologies

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
B2M32DSVA	Distributed Computing Peter Macejko Peter Macejko Peter Macejko (Gar.)	Z,ZK	6	2P + 2C	Z	PV
B6B37MM2	Multimedia 2 František Rund, Jan Bedná , Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6D	L	PV
B0B39PGR	Computer graphics programming Jaroslav Sloup, Petr Felkel Jaroslav Sloup Petr Felkel (Gar.)	Z,ZK	6	2P+2C+8D	L	PV
B6B39TDM	<b>3D Modeling</b> David Sedlá ek <b>David Sedlá ek</b> David Sedlá ek (Gar.)	KZ	5	0P+4C+6D	Z	PV

### Characteristics of the courses of this group of Study Plan: Code=2021\_BSITPVS2 Name=Compulsory elective subjects - specialization Multimedia and Virtual Reality Technologies

B2M32DSVA	Distributed Computing	Z,ZK	6		
The course is focused of	The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of application processes, programming				
interfaces of communic	interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive				
access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.					
B6B37MM2	Multimedia 2	Z,ZK	5		
B0B39PGR	Computer graphics programming	Z,ZK	6		
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: 2021\_BSITVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: #~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

## List of courses of this pass:

Code	Name of the course	Completion	Credits		
B0B04B1K	English language B1 - classified assessment	KZ	0		
	verifying of the student's skills of B1 level				
B0B04B2Z	English language B2 - exam	Z,ZK	0		
I) The B2 English E	) 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 an				
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 co	mplete the study p	orogramme."		
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	non European Frar	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-Ir	itermediate)		
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 f	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	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	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/					
B0B36DBS	Database Systems	Z,ZK	6		
The course is desig	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 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.					
B0B36PJV	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.					
B0B36ZAL	Introduction to Programming	Z,ZK	6		

	Multimedia 1	Z,ZK	6 of standards
B0B39MM1		on presentation (	of standards
	dents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused		
-	ods and approaches commonly used in commercial and alternative creation processes. The presented topics include production pro		
	a applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course is also a project with use of presented technologies and		problematic
B0B39PGR	Computer graphics programming	Z,ZK	6
B0B39TVS	Tvorba virtuálních sv t	KZ	4
B0B39VAR	3D Modeling and Virtual Reality	Z,ZK	6
	verview of basic techniques for modeling spatial objects and scenes. They learn to create simple, but highly interactive and animated		-
-	ind is practiced using VRML/X3D specification. Besides fully 3D virtual environments, other approaches like augmented reality or pand		
	The aim is also to make connections between virtual reality browsers and other software components widely used on the we	b.	
B0M32KSB	Cryptography and Network Security	Z,ZK	6
he Information Sec	urity course provides a complete source of information on the field of security of information systems and information technologies. The	ne most of informa	ation in toda
society is created,	transferred, stored in electronic form so information security is very important part of it. Technical background for information securit	ty is provided by o	cryptology.
B2M32DSVA	Distributed Computing	Z,ZK	6
The course is focus	ed on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of applicat	tion processes, pr	rogramming
interfaces of comn	nunication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that	assure causality	, exclusive
	access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.		T
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
his course is an intr	roduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications	(graphing, Taylo	r polynomia
	and definite/indefinite integral with its applications, sequences and series.		
B6B01PRA	Statistics and Probability	Z,ZK	5
	introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications in	-	
	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part de		-
	stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variab		
	formations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and t		5
B6B01ZDM	Introduction to Discrete Mathematics leges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of c	Z,ZK	-
NO advanced know	theory. Then we proceed to formal construction of propositional calculus.	ombinatorics, set	anu graph
DEDIGING	Information Systems	<b>V</b> 7	1
on the market" exist The fundamenta mplementation and	Information Systems rse is to familiarise students with the information systems topic and information systems implementation principles. During the cours sting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t I part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or better to implement any existing information system or to develop a new one from scratch. These factors determine the information system	ypes of information ys of information customer insight a	on systems systems and ability
The goal of this cou "on the market" exis The fundamenta mplementation and ecide whether it is b	rse is to familiarise students with the information systems topic and information systems implementation principles. During the cours sting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t I part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or	se, students are in ypes of information ys of information customer insight a stem implementat	ntroduced to on systems systems and ability tion succes
The goal of this cou "on the market" exis The fundamenta mplementation and ecide whether it is b	rse is to familiarise students with the information systems topic and information systems implementation principles. During the course sting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t I part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa information system implementation based on the project management principles. The emphasis is on the initial customer analysis, o better to implement any existing information system or to develop a new one from scratch. These factors determine the information system	se, students are in ypes of information ys of information customer insight a stem implementat	ntroduced t on systems systems and ability t tion succes
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The goal of this cou "on the market" exis The fundamenta mplementation and ecide whether it is b At the end of B6B32PSI B6B36DSA	rse is to familiarise students with the information systems topic and information systems implementation principles. During the course sting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t I part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or etter to implement any existing information system or to develop a new one from scratch. These factors determine the information system the course information systems security, operation, support, maintenance, legislation impacts, and government information systems <u>Computer Networks</u> Data Structures and Algorithms	se, students are ir ypes of information ys of information customer insight a stem implementat s topics are discus Z,ZK Z,ZK	ntroduced t on systems systems and ability t tion succes ssed. 5 6
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The goal of this cou on the market" exis The fundamenta mplementation and ecide whether it is b At the end of B6B32PSI B6B36DSA B6B36NSS B6B36OMO B6B36PM2 B6B36SMP his course covers th B6B36TS1	rse is to familiarise students with the information systems topic and information systems implementation principles. During the course sting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and other t I part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, wa information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or better to implement any existing information system or to develop a new one from scratch. These factors determine the information system the course information systems security, operation, support, maintenance, legislation impacts, and government information systems <u>Computer Networks</u> Data Structures and Algorithms Design of Software Systems Object-oriented design and Modeling Programming in C/C++ Management of Software Projects Analysis and Modeling of Software Requirements he topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML. Software Testing	ee, students are ir ypes of information customer insight a stem implementat s topics are discus Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK using the most w	systems and ability t tion succes ssed. 5 6 5 6 5 6 5 4 6 5 4 4 6 videly sprea
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The goal of this could on the market" exist The fundamentation and ecide whether it is to At the end of B6B32PSI B6B36DSA B6B36DSA B6B36OMO B6B36PCC B6B36PM2 B6B36SMP his course covers the B6B36TS1 B6B36ZSO B6B37MM2 B6B38ZPS The first topic introduced. The first topic introduced the next lecture will be be introduced. The section of the course familia principles of graphection of the course they use several d	rse is to familiarise students with the information systems topic and information systems implementation principles. During the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, we information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or etter to implement any existing information system or to develop a new one from scratch. These factors determine the information system course in the initial customer analysis, or etter to implement any existing information system or to develop a new one from scratch. These factors determine the information system course information systems security, operation, support, maintenance, legislation impacts, and government information systems. Data Structures and Algorithms Design of Software Systems Object-oriented design and Modeling OC/C++ Management of Software Projects Analysis and Modeling of Software Projects Analysis and Modeling of Software Requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge or graphic notation - UML. Software Testing Introduction to Project Management Multimedia 2 Basics of Computer Systems ecours of computer setting analysis, documentation, management set focused on digital to roccessor and its instruction set. Common and special architectures and specialized instruction set, ways to increase processor pe computer acchitecture description, memories and their categorization in terms of functional and synchronization, resource m deal with the computer Networks. The following lectures are focused on digital to roccessor and its instruction set. Common and special architectures and specialized instruction to TC / P protocols. Fiscribed in more specifically with an introduction to TC / P protocols. Fiscribed in mereal (OSI model) and them more specifically with an introduction to TC / P protocols. Fiscribed in more detail, including disk partitioning, fil	ee, students are ir ypes of information customer insight a stem implementat stopics are discu- z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Using the most w Z,ZK KZ Z,ZK Z,ZK Echnology, intern rformance and the ased on this know anagement and w urther the disk (m s, typical problem KZ KZ KZ w udents gradually ng of multimedia co in the last day de	Image: construction of the construc
The goal of this could on the market" exist The fundamentation and ecide whether it is to At the end of B6B32PSI B6B36DSA B6B36DSA B6B36OMO B6B36PCC B6B36PM2 B6B36SMP his course covers the B6B36TS1 B6B36ZSO B6B37MM2 B6B38ZPS The first topic introduced. The first topic introduced the next lecture will be be introduced. The section of the course familia principles of graphection of the course they use several d composition in the section of the course familia principles of graphection of the course familia composition in the course familia familia principles of graphection of the course familia composition in the course familia principles of graphection of the course familia principles of graphection family and the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the course family and the principles of graphection of the principles of graphection of the principles of graphection of the p	rse is to familiarise students with the information systems topic and information systems implementation principles. During the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, we information system implementation based on the project management principles. The emphasis is on the initial customer analysis, or etter to implement any existing information system or to develop a new one from scratch. These factors determine the information system course in the initial customer analysis, or etter to implement any existing information system or to develop a new one from scratch. These factors determine the information system course information systems security, operation, support, maintenance, legislation impacts, and government information systems of Software Systems  Computer Networks  Data Structures and Algorithms  Design of Software Systems Object-oriented design and Modeling 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 on graphic notation - UML.  Software Testing Introduction to Project Management Mutimedia 2 Basics of Computer Systems  uces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital to focuse on ad special architectures and special architectures are focused on digital to focused on gatting acquainted with the categorization in terms of functional principles and application use will be bas for object for a gattering systems, and access fights. Finally the basics of electronics and optoelectronic students to further deepent their knowledge in this area	ee, students are ir ypes of information customer insight a stem implementat stem implementat stopics are discu- z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Using the most w Z,ZK KZ Z,ZK Echnology, intern rformance and the ased on this know anagement and w urther the disk (m es, typical problem KZ KZ So and audio, as w udents gradually ng of multimedia co in the last day de ion will be assess	Image: systems         and ability t         systems         and ability t         tion success         ssed.         5         6         5         6         7         6         7         6         7         5         6         7         5         6         1         5         6         1         5         6         1         5         5         5         6         1         5         3         well as the         pass each         content whi         edicated to         red.
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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/departr	nents. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution c	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		
BE4B39VGO	Creating graphic content	Z,ZK	6		
The aim of this co	The aim of this course is to provide theory behind geometric modeling and modeling of materials, give students an overview of methods used in the process of creating 2D and 3D				
graphics and how to apply those methods in praxis. At the seminars, students will learn how to design and create three-dimensional scene, create and apply textures imitating materials					
(e.g., wall finishes, wood, sky) and geometrical details, and position and set-up lights in the scene.					
BEZB	Safety in Electrical Engineering for a bachelor's degree		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 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 <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2024-05-17, time 10:17.