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 meila Roman meila (Gar.)	Z	20	12S	L,Z	Р

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

BBAP20 Bachelor thesis Z Z 20

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 Radek Havlí ek 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		0 1					
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	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:

Nome of the course / Nome of the group of courses	ı	1	1		
(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
Tutors, authors and guarantors (gar.)					
Database Systems Martin imná, Václav Kratochvíl Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	L	Р
Data Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)	KZ	4	2P+2S+3D	L	Р
Cryptography and Network Security Tomáš Van k Ivan Pravda Tomáš Van k (Gar.)	Z,ZK	6	2P+2L+4D	Z	Р
Linear Algebra Ji í Velebil, Jakub Rondoš, Daria Pavlova Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Р
Mathematics Analysis Natalie Žukovec, Karel Pospíšil Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
Object-oriented design and Modeling David Kadle ek David Kadle ek David Kadle ek (Gar.)	Z,ZK	6	2P+2C+4D	Z	Р
Computer Networks Tomáš Van k, Zbyn k Kocur, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	Z	Р
Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Karel Richta, Petr Ryšavý Karel Richta Karel Richta (Gar.)	Z,ZK	5	2P+2C+4D	Z	Р
Programming in Java Ji í Vok ínek, Martin Mudroch, Ladislav Serédi Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7D	L	Р
Management of Software Projects Miroslav Bureš Miroslav Bureš Miroslav Bureš (Gar.)	KZ	4	2P+2C+2D	Z	Р
Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
Semestral Project Ji í Šebek, Jaroslav Sloup, Petr Pošík Jaroslav Sloup Jaroslav Sloup (Gar.)	Z	6	2s	L,Z	Р
Statistics and Probability Jakub Stan k, Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S+1D	L	Р
Software Testing Miroslav Bureš, Avetis Mkrtchian Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
Introduction to Programming Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+2C+8D	Z	Р
Introduction to Discrete Mathematics Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
Foundations of Multimedia Production Roman Berka, František Rund Roman Berka Roman Berka (Gar.)	KZ	3	4P+4L+2D	Z	Р
Basics of Computer Systems Jií Novák Jií Novák Jií Novák (Gar.)	Z,ZK	6	4P+2L+2D	Z	Р
Introduction to Project Management Pavel Náplava, Martin Dobiáš, Jitka Pinková Pavel Náplava Pavel Náplava (Gar.)	KZ	5	2P+2C+5D	Z	Р
Foundations of Web Applications Martin Klíma, Martin Mudra Martin Klíma Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	Р
	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.) Database Systems Martin immå, Väclav Kratochvil Martin immå Martin immå (Gar.) Data Structures and Algorithms Karel Richta, Jan Drohal Karel Richta Karel Richta (Gar.) Information Systems Pavel Näplava, Jan Ko i Pavel Náplava Pavel Náplava (Gar.) Cryptography and Network Security Tomáš Van k Ivan Pravda Tomáš Van k (Gar.) Linear Algebra Ji i Vlelbil, Jakub Rondoš, Daria Pavlova Ji i Velebil Ji i Velebil (Gar.) Mathematics Analysis Natalie Žukovec, Karel Pospišil Natalie Žukovec Natalie Žukovec (Gar.) Design of Software Systems Ji i Šebek Ji i Šebek (Gar.) Object-oriented design and Modeling David Kadle ek David Kadle ek (Gar.) Computer Networks Tomáš Van k, Zbyn k Kocur, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.) Programming in C/C++ Radek Havli ek, Ingrid Nagyová, Karel Richta, Petr Ryšavý Karel Richta (Karel Richta (Gar.) Programming in Java Ji Vok Inek, Martin Mudroch, Ladislav Serédi Ji í Vok Ínek Ji í Vok Ínek (Gar.) Management of Software Projects Miroslav Bureš Miroslav Bureš Miroslav Bureš (Gar.) Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.) Semestral Project Ji í Šebek, Jaroslav Sloup, Petr Pošík Jaroslav Sloup Jaroslav Sloup (Gar.) Statistics and Probability Jakub Stan k, Kate ina Helisová Kate ina Helisová (Gar.) Introduction to Programming Ji i Vok Inek Ji í Vok inek Ji í Vok inek (Gar.) Introduction to Discrete Mathematics Jaroslav Tišer Jaroslav Tišer (Gar.) Foundations of Multimedia Production Roman Berka, František Rund Roman Berka Roman Berka (Gar.) Introduction to Project Management Pavel Náplava, Martin Dobiáš, Jitka Pinková Pavel Náplava Pavel Náplava (Gar.) Foundations of Web Applications	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.) Database Systems Martin immá, Väclav Kratochvíl Martin immá Martin imná (Gar.) Data Structures and Algorithms Karel Richta, Jan Drchal Marel Richta Karel Richta (Gar.) Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.) Cryptography and Network Security Tomás Var k Ivan Pravda Tomáš Van k (Gar.) Linear Algebra Ji í Velebil, Jakub Rondoš, Daria Pavlova Ji í Velebil Ji í Velebil (Gar.) Mathematics Analysis Natalie Žukovec, Karel Pospíši Natalie Žukovec Natalie Žukovec (Gar.) Design of Software Systems Ji í Sebek Ji í Šebek (Gar.) Object-oriented design and Modeling David Kadle ek David Kadle ek David Kadle ek (Gar.) Programming in C/C++ Radek Havll ek, Ingrid Nagyová, Karel Richta, Petr Ryšavý Karel Richta Karel Richta (Gar.) 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Programming in C/C++ Radek Havil ek, Ingrid Nagyová, Karel Richta, Petr Ryšavý Karel Richta Karel Richta (Gar.) Programming in Java Ji i Vek Inek, Martin Mudroch, Ladislav Serédi Ji i Vok Inek Ji i Vok Inek (Gar.) Management of Software Projects Miroslav Buraš Miroslav Bureš Miroslav Bureš (Gar.) Semestral Project Ji i Sebek, Jaroslav Sloup, Petr Pošik Jaroslav Sloup Jaroslav Sloup (Gar.) Semestral Project Ji i Sebek, Jaroslav Sloup, Petr Pošik Jaroslav Sloup Jaroslav Sloup (Gar.) Semestral Project Ji i Sebek, Jaroslav Sloup, Petr Pošik Jaroslav Bureš Miroslav Bureš (Gar.) Semestral Project Ji i Sebek, Jaroslav Sloup, Petr Pošik Jaroslav Sloup Jaroslav Sloup (Gar.) Semestral Project Ji i Vek inek Ji i Vok inek (Gar.) Semestral Project Ji i Sebek, Jaroslav Sloup, Petr Pošik Jaroslav Bureš Miroslav Bureš (Gar.) Semestral Project Ji i Vek inek Ji i Vok inek (Gar.) Semestral Project Ji i Vek inek Ji i Vok inek (Gar.) Semestral Project Ji i Vek inek Ji i Vok inek (Gar.) 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Design of Software Systems Ji í Sebek Ji í Sebek (Gar.) Computer Networks Tomáš Van k, Zbyn k Kocur, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.) Computer Networks Tomáš Van k, Zbyn k Kocur, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.) Programming in C/C++ Radek Hawli ek, Ingrid Nagyová, Karel Richta, Petr Ryšavý Karel Richta Karel Richta (Gar.) Management of Software Projects Miroslav Bureš Miroslav Bureš Miroslav Bureš (Gar.) Analysis and Modeling of Software Requirements Martin Komárek Kate ina Helisová Kate ina Helisová (Gar.) Semestral Project Ji í Sebek, Janoslav Sloup, Petr Pošík Janoslav Sloup Janoslav Sloup (Gar.) Statistics and Probability Ji í Vok ínek, Jí í Novák (Gar.) Introduc	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.) Database Systems Martin imná, Václav Kratochvil Martin imná Martin imná (Gar.) Database Systems Martin imná, Václav Kratochvil Martin imná Martin imná (Gar.) Data Structures and Algorithms Z,ZK 6

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 del										
	data querying and to ch	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 m	anagement. They will verify their knowledge during the elaboration of a continuously submitted seminar task.								

			,		 ,		
B6B36DSA	Data St	ructures	and Algo	rithms		Z,ZK	6
B6B16INS	Informa	tion Sys	tems			K7	4

The goal of this course is to familiarise students with the information systems topic and information systems implementation principles. During the course, students are 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 other types of information 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 better to implement any existing information system or to develop a new one from scratch. These factors determine the information system implementation success. At the end of the course information systems security, operation, support, maintenance, legislation impacts, and government information systems topics are discussed.

DOMOGICOD			
B0M32KSB	Cryptography and Network Security	Z,ZK	6
1	rity course provides a complete source of information on the field of security of information systems and information technolog		mation in today
society is created, tra	nsferred, stored in electronic form so information security is very important part of it. Technical background for information se	curity is provided by o	cryptology.
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
	polyction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applic	1 '	_
	integral with its applications, sequences and series.	3, 1,	. , . ,
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 cou		-
1	The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working the course in the form of the course in the course of t	-	
	important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knows and semester work, which will be submitted continuously through the source code version control system. The semester works	-	
	ency of the code, as well as points that take into account the quality of the source codes, their readability and reusability.	ork scoring consists o	i points for the
		KZ	4
B6B36PM2	Management of Software Projects		
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
	e topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowled	age on using the most	t widely spread
graphic notation - UN	-		
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 at the studied specialization of the studied specialization at the studied speciali		
	ents. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolu	ution of the projects ca	an be found on
	selected department. Within this course the project is also defended.	7 714	
B6B01PRA	Statistics and Probability	Z,ZK	5
The students will be		·	
	ntroduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications and their applications of the state of the st	•	
	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next	part deals with the the	eory of random
variables and their di	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random	part deals with the the variables, their indepe	eory of random
variables and their diand transformations.	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin	part deals with the the variables, their indepe g hypotheses.	eory of random endence, sums
variables and their diand transformations. B6B36TS1	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin Software Testing	part deals with the the variables, their independent of the properties of the proper	eory of random endence, sums
variables and their diand transformations.	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK	eory of random endence, sums 5 6
variables and their di and transformations. B6B36TS1 B0B36ZAL B6B01ZDM	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin Software Testing Introduction to Programming Introduction to Discrete Mathematics	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK	eory of random endence, sums 5 6 5
variables and their di- and transformations. B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowle	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin 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	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK	eory of random endence, sums 5 6 5
variables and their di- and transformations. B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowle	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin Software Testing Introduction to Programming Introduction to Discrete Mathematics	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK of combinatorics, set	eory of random endence, sums 5 6 5
variables and their di- and transformations. B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowle	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin 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	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK	eory of random endence, sums 5 6 5
variables and their di- and transformations. B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowle theory. Then we proc B6B39ZMT	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin 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 and to a brief formal construction of predicate calculus.	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK of combinatorics, set	eory of random endence, sums 5 6 5 and graph
variables and their di- and transformations. B6B36TS1 B0B36ZAL B6B01ZDM No advanced knowle theory. Then we procedure to the course familiarize principles of graphic	bability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next stributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testin 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 ged to a brief formal construction of predicate calculus. Foundations of Multimedia Production ges students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, we design and its implementation in a web environment. The course is organized within the block teaching when, within four days	part deals with the the variables, their independing hypotheses. Z,ZK Z,ZK Z,ZK of combinatorics, set KZ //ideo and audio, as wear, students gradually provided their independent independent in the state of their independent in the state of the state of their independent in the state of the state of their independent in the state of the sta	serry of random endence, sums 5 6 5 and graph 3 ell as the bass each
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application. The subject ends with an oral and written exam.

Code of the group: 2021_BSITECTSZAJ

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:

side (Javascript). The course continues with server-side dynamics programmed in PHP 7 language. The students will learn how to handle forms and how to create a simple web

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 Juna Jennings Petra Juna Jennings (Gar.)	KZ	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Markéta Havlí ková, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р

Characteristics of the courses of this group of Study Plan: Code=2021_BSITECTSZAJ Name=Exam in English

B0B04B1K	B0B04B1K English language B1 - classified assessment						
verifying of the student		•					
B0B04B2Z	B0B04B2Z English language B2 - exam						

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 requires the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common European Framework of Reference for Languages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 (Upper-Intermediate) level is one who can understand the main 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 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: Compulsory courses in the specialization

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 František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L+8D	Z	PS
B0B39TVS	Tvorba virtuálních sv t David Sedlá ek David Sedlá ek David Sedlá ek (Gar.)	KZ	4	2 274 3.+18D	L	PS
B0B39VAR	3D Modeling and Virtual Reality David Sedlá ek, Ji í Žára David Sedlá ek David Sedlá ek (Gar.)	Z,ZK	6	2P+2L+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 and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content,

technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content, interactive multimedia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course also contain problematics of archivation and distribution of multimedia content. The part of the course is 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
10, 1, ,			

Students get an overview of basic techniques for modeling spatial objects and scenes. They learn to create simple, but highly interactive and animated objects in a virtual space. Theoretical background is practiced using VRML/X3D specification. Besides fully 3D virtual environments, other approaches like augmented reality or panoramic images 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, 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 (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	3D Modeling David Sedlá ek David Sedlá ek 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**

	<u> </u>		
B2M32DSVA	Distributed Computing	Z,ZK	6
The course is focused of	n technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of app	ication processes	, programming
interfaces of communic	ation channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms th	at assure causalit	y, exclusive
access, deadlock detec	tion/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: http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

#~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách

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 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 requires the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common European Framework of Reference for Languages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 (Upper-Intermediate) level is one who can understand the main 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 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/

B0B36DBS **Database Systems** Z,ZK

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

	Programming in Java	Z,ZK	6
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or the bava languag	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course als ge. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with		
will be introduced. i	An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledge		
	sks and semester work, which will be submitted continuously through the source code version control system. The semester work so		
0.	correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and re	-	
B0B36ZAL	Introduction to Programming	Z,ZK	6
B0B39MM1	Multimedia 1	Z,ZK	6
	tudents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused	•	of standards
technologies, met	thods and approaches commonly used in commercial and alternative creation processes. The presented topics include production pro-	ocess of multimed	dia content,
nteractive multime	dia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The cou		problematic
	of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and		1
B0B39PGR	Computer graphics programming	Z,ZK	6
B0B39TVS	Tvorba virtuálních sv t	KZ	4
B0B39VAR	3D Modeling and Virtual Reality	Z,ZK	6
_	overview of basic techniques for modeling spatial objects and scenes. They learn to create simple, but highly interactive and animated	-	-
Theoretical backgro	bund is practiced using VRML/X3D specification. Besides fully 3D virtual environments, other approaches like augmented reality or pand	-	e introduced
Dollar (OD	The aim is also to make connections between virtual reality browsers and other software components widely used on the we		1 0
B0M32KSB	Cryptography and Network Security	Z,ZK	6
	curity course provides a complete source of information on the field of security of information systems and information technologies. The		
	d, transferred, stored in electronic form so information security is very important part of it. Technical background for information security	Z,ZK	6
B2M32DSVA	Distributed Computing sed on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of applicat	,	_
	nsed on technologies that support distributed computing, on mechanisms ensuring reliable, entolent and secure connection of application of application channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that		
	access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.		,
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
	troduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications	,	1
	and definite/indefinite integral with its applications, sequences and series.	(3 -1 3, -)	1 - 7
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	•	1
he basic parts of p	robability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part de	eals with the theo	ry of randon
	distributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variables.		
	sformations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and to	actina hypathaca	c
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
B6B01ZDM	owleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of co	Z,ZK	5
B6B01ZDM No advanced kno	wleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of course. Then we proceed to a brief formal construction of predicate calculus.	Z,ZK ombinatorics, set	5 and graph
B6B01ZDM No advanced kno	wleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of course. Using illustrative examples we build sufficient understanding of contents theory. Then we proceed to a brief formal construction of predicate calculus. Information Systems	Z,ZK ombinatorics, set	5 and graph
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section of the course divided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processing of multimedia content while they use several different types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained within the last day dedicated to composition rules within a Web project. After completing the course, students will carry out their own independent project and after its submission will be assessed. B6B39ZWA Foundations of Web Applications The subject is focussing on the creation and maintenance of web presentations. It covers the creation of data structures (HTML), graphical design (CSS), and dynamics on the client side (Javascript). The course continues with server-side dynamics programmed in PHP 7 language. The students will learn how to handle forms and how to create a simple web application. The subject ends with an oral and written exam. Semestral Project 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 BE4B39VGO Z,ZK Creating graphic content 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. Safety in Electrical Engineering for a Bachelor's Degree 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. Basic Health and Occupational Safety Regulations BF77

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 2025-06-27, time 21:29.