Study plan

Name of study plan: Software Engineering and Technology

Faculty/Institute/Others:
Department:
Branch of study guaranteed by the department: Common courses
Garantor of the study branch:
Program of study: Welcome page
Type of study: unknown full-time
Required credits: 170
Elective courses credits: 10
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: 150 The role of the block: P

Code of the group: 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

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20

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

BBAP20 Bachelor thesis

Code of the group: BSITBBE

Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 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
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=BSITBBE Name=Safety of the bachelor's studies

BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0		
The purpose of the safe	he 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 equi	oment.		
BEZZ	Basic Health and Occupational Safety Regulations	Z	0		
The guidelines were wo	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 t	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 Occu	pational Safety		
regulations forms an inte	egral and permanent part of qualification requirements. This program is obligatory.				

Code of the group: BSITMP1 Name of the group: Compulsory subjects of the programm 1st year Requirement credits in the group: In this group you have to gain 60 credits Requirement courses in the group: In this group you have to complete at least 12 courses Credits in the group: 60

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Note	on	the	arou	D:

Note on the gro	up.					
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, Václav Kratochvíl Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	P L	Р
B6B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Р
B6B04PRE	Presentation Petra Juna Jennings, Jitka Pinková Jitka Pinková Petra Juna Jennings (Gar.)	KZ	3	1P+1C	Z	Р
B0B36PJV	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	Ρ
B6B36SMP	Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36TS1	Software Testing Miroslav Bureš, Avetis Mkrtchian Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
B6B36ZAL	Introduction to Programming Ji í Vok ínek	Z,ZK	5	2P+2C+2D	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
B6B36ZPR	Introduction to Project Management Pavel Náplava	KZ	3	4P+4C+2D	Z	Р
B6B39ZWA	Foundations of Web Applications Martin Klíma, Martin Mudra Martin Klíma Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BSITMP1 Name=Compulsory subjects of the programm 1st year

B0B36DBS	Database Systems	Z,ZK	6
The course is desig	ned as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL langu	age for data definitio	on as well as f
data querying and t	o choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used index	ing techniques, data	base system
architecture and the	ir management. They will verify their knowledge during the elaboration of a continuously submitted seminar task.		
B6B01LAG	Linear Algebra	Z,ZK	7
B6B04PRE	Presentation	KZ	3
B0B36PJV	Programming in Java	Z,ZK	6
The course builds o	n the basics of algorithms and programming from the first semester and introduces students to the Java environment. The cour	se also focus on the	object conce
of the Java languag	e. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, workir	ng with files and usin	g generic typ
will be introduced. A	n important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and kno	owledge of Java is te	sted in the for
	sks and semester work, which will be submitted continuously through the source code version control system. The semester wo	-	
	ciency of the code, as well as points that take into account the quality of the source codes, their readability and reusability.	3	
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
This course covers t	the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowled	lge on using the mos	st widely sprea
graphic notation - U	ML.		
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
No advanced knowl	eges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding	of combinatorics, se	t and graph
theory. Then we pro	ceed to a brief formal construction of predicate calculus.		

B6B39ZMT	Foundations of Multimedia Production	KZ	3				
	students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, vid						
	sign and its implementation in a web environment. The course is organized within the block teaching when, within four days,						
	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						
	nt types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained w		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	II be assessed.					
B6B38ZPS	Basics of Computer Systems	Z,ZK	6				
The first topic introduce	s students to the basic concepts of computer technology and computer networks. The following lectures are focused on digita	al technology, inte	ernal structure				
and function of the proc	essor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor	performance and	d their limits will				
be introduced. The com	puter architecture description, memories and their categorization in terms of functional principles and application use will be	based on this know	owledge. The				
following lectures are fo	cused on getting acquainted with operating systems, multitasking, inter-process communication and synchronization, resourc	e management a	nd virtualization.				
The next lecture will dea	I with the computer networks - first in general (OSI model) and then more specifically with an introduction to TCP / IP protocol	ls. Further the dis	k (mass storage)				
subsystem will be descr	ibed in more detail, including disk partitioning, file systems, and access rights. Finally the basics of electronics and optoelectr	onics, typical pro	blems motivating				
students to further deep	en their knowledge in this area through self-study will be introduced.		c c				
B6B36ZPR	Introduction to Project Management	KZ	3				
The course introduces s	students to the general (not only IT) basics of project management. In addition to basic project management concepts (plann	ing, organization,	etc.) students				
also get practical experi	ences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in	the consecutive of	courses.				
B6B39ZWA	Foundations of Web Applications	Z,ZK	5				
The subject is focussing	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 co	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.						

Code of the group: BSITMP23 Name of the group: Compulsory subjects of the programm 2nd and 3rd year Requirement credits in the group: In this group you have to gain 64 credits Requirement courses in the group: In this group you have to complete at least 13 courses Credits in the group: 64

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
B6B36DSA	Data Structures and Algorithms Karel Richta, Jan Drchal Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Ρ
B6B36EAR	Enterprise Architectures Petr K emen, Petr Aubrecht Petr K emen Petr K emen (Gar.)	КZ	5	2P+2C+2D	Z	Ρ
B6B16INS	Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)	KZ	4	2P+2S+3D	L	Ρ
B6B32KAB	Cryptography and Information Security Tomáš Van k Ivan Pravda Tomáš Van k (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	Ρ
B6B01MAA	Mathematics Analysis Natalie Žukovec, Karel Pospíšil Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2C	Z	Ρ
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 (Gar.)	Z,ZK	6	2P+2C+4C	Z	Р
B6B32PSI	Computer Networks Zbyn k Kocur, Tomáš Van k, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	z	Ρ
B6B01PST	Statistics and Probability	Z,ZK	4	2P+2S+1D	L	Р
B6B16PIT	Law for IT Martin Dobiáš, Michal Briaský Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	4	3P+1S+1D	Z	Р
B6B36PJC	Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Karel Richta Karel Richta Karel Richta (Gar.)	КZ	4	2P+2C+2D	z	Ρ
B6B36RSP	Management of Software Projects Miroslav Bureš	Z,ZK	6	3P+2C+3C	L	Р
B6B16ZPD	Business Economics Martin Dobiáš, Ji í Vaší ek, Martin Horák, Blanka Ku erková Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	5	2P+2S+2D	z	Ρ

Characteristics of the courses of this group of Study Plan: Code=BSITMP23 Name=Compulsory subjects of the programm 2nd and 3rd year

B6B36DSA	Data Structures and Algorithms	Z,ZK	6			
B6B36EAR	Enterprise Architectures	KZ	5			
The course offers an ov	The course offers an overview of enterprise system architectures, focusing on Spring and Java EE. Students will become familiar with the most common enterprise architectures and					
related design patterns.	elated design patterns. In particular, the focus will be put on the principles of inversion control, dependency injection and Java Bean lifecycle. Pairs of students will prepare a simple					
enterprise application a	s their semestral work.					

B6B16INS	Information Systems	KZ	4
The goal of this cou	se is to familiarise students with the information systems topic and information systems implementation principles. During the co	ourse, students are	introduced to
"on the market" exis	ting types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and othe	er types of informa	tion systems.
	rt of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, way		
	information system implementation based on the project management principles. The emphasis is on the initial customer analys		,
	better to implement any existing information system or to develop a new one from scratch. These factors determine the information		
	urse information systems security, operation, support, maintenance, legislation impacts, and government information systems top	pics are discussed	
B6B32KAB	Cryptography and Information Security	Z,ZK	5
	urity course provides a complete source of information on the field of security of information systems and information technologies		
society is created, to	ansferred, stored in electronic form so information security is very important part of it. Technical background for information secu	rity is provided by	cryptology.
B6B01MAA	Mathematics Analysis	Z,ZK	5
This course is an in-	roduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applicati	ions (graphing, Ta	/lor polynomial)
and definite/indefinit	e 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
B6B01PST	Statistics and Probability	Z,ZK	4
The students will be	introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application	s in practice. The	course covers
	obability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next pa	rt deals with the th	eory of random
the basic parts of pr	obability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next pa istributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random va		
the basic parts of pr variables and their d		riables, their indep	
the basic parts of pr variables and their d	istributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random va	riables, their indep	
the basic parts of pr variables and their d and transformations	istributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random val Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing h	riables, their indep nypotheses.	endence, sums
the basic parts of pr variables and their d and transformations B6B16PIT	istributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random va Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing h Law for IT	riables, their indep nypotheses. Z,ZK	endence, sums

Code of the group: BSITPRO

Name of the group: Project

Requirement credits in the group: In this group you have to gain 6 credits

- Requirement courses in the group: In this group you have to complete 1 course
- Credits in the group: 6

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
B6B36PRO	Semestral Project Ji í Vok ínek, Ji í Šebek, Ivan Jelínek, Martin Tomášek Ji í Vok ínek Ji í Vok ínek (Gar.)	КZ	6	2s	L,Z	Ρ

Characteristics of the courses of this group of Study Plan: Code=BSITPRO Name=Project

 B6B36PRO
 Semestral Project
 KZ
 6

 Individual or team work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization and provided by the specific department/departments. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the projects can be found on the web pages of the selected department. Within this course the project is also defended.

Code of the group: 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:

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 Petra Juna Jennings, Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková Petra Juna Jennings Petra Juna Jennings (Gar.)	ΚZ	0	0C	Z,L	Ρ
B0B04B2Z	English language B2 - exam Petra Juna Jennings, Markéta Havlí ková, Michael Ynsua, Dana Saláková 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=BSITECTSZAJ Name=Exam in English

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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 stud	y programme. In
addition, this requires the	ne passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common E	uropean Framew	ork 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-Interm	ediate) level is
one who can understan	d the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specia	isation. Can intera	act with a degree
of fluency and spontane	ity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detaile	ed text on a wide r	ange of subjects
and explain a viewpoint	on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed a	an approved inter	national exam
within the past five year	s 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 elective courses Minimal number of credits of the block: 20 The role of the block: PV

Code of the group: BSITMPV

Name of the group: Compulsory subjects

Requirement credits in the group: In this group you have to gain at least 20 credits (at most 78) Requirement courses in the group: In this group you have to complete at least 4 courses 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
B6B32DSV	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	5	2P + 2L + 4D	Z	PV
B6B16FIP	Corporate finance Ji í Vaší ek, Old ich Starý, Josef ernohous Ji í Vaší ek Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2C	L	PV
B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2C	Z	PV
B0B39MM1	Multimedia 1 Roman Berka, František Rund, Libor Husník František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L+8C	Z	PV
B6B37MM2	Multimedia 2 František Rund, Jan Bedná , Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6C	L	PV
B6B32ST2	Advanced Networking Technologies Leoš Bohá Leoš Bohá Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	PV
B6B39PDA	Principles of mobile applications	Z,ZK	6	2P+2C	L	PV
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2C	Z	PV
B0B39PGR	Computer graphics programming Petr Felkel, Jaroslav Sloup Jaroslav Sloup Petr Felkel (Gar.)	Z,ZK	6	2P+2C+8D) L	PV
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	PV
B6B36SPS	Computer Networks Administration Jan Kubr	Z,ZK	5	2P+2C+3D) L	PV
B6B32TKS	Telecommunications Networks Ivan Pravda	Z,ZK	5	2P + 2L + 2D	L	PV
B6B39TUR	User Interface Testing	Z,ZK	5	2P+2S+2D	Z	PV
B0B39KAJ	Client applications in JavaScript Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)	Z,ZK	5	2P+2C	L	PV
B6B16ZMI	Marketing Research Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2C	Z	PV
B6B39TDM	3D Modeling David Sedlá ek David Sedlá ek David Sedlá ek (Gar.)	KZ	5	0P+4C+6E	Z	PV

Characteristics of the courses of this group of Study Plan: Code=BSITMPV Name=Compulsory subjects							
B6B32DSV	Distributed Computing	Z,ZK	5				
The course is focuse	d on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of app	lication processes	, programming				
interfaces of commu	nication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms th	at assure causali	y, exclusive				
access, deadlock de	ection/avoidance, fault-tolerance, mobile computing, and security.						
B6B16FIP	Corporate finance	Z,ZK	5				
B6B16MPR	Decision Making Methods	7 7K	5				

	Multimedia 1			1	Z,ZK	6
-	dents knowledge necessary to produce and edit multimedia content using variety of tools a				-	
	Is and approaches commonly used in commercial and alternative creation processes. The a applications, data formats and compression methods, technical equipment to record video					
	stribution of multimedia content. The part of the course is also a project with use of presen					problomat
36B37MM2	Multimedia 2	_		Z	Z,ZK	5
36B32ST2	Advanced Networking Technologies				Z,ZK	5
36B39PDA	Principles of mobile applications				Z,ZK	6
Student who success	sfully passed the course get overview about properties and about limits of single mobile te	chnologies. The cour	se is focuse			ated to
	apabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics of mobile devices.					
	sic programming techniques for mobile application development - it is expected that stude	nts already have this	skills or will		-	
B6B16ISP	Business Process Management				Z,ZK	5
BOB39PGR	Computer graphics programming				Z,ZK	6
36B32SOS	Network Operating Systems rstems, Linux, Unix. Administration and network tools, managing and administration of doc	umontation The grad	luatos will b		Z,ZK	5
	ing systems administration (UNIX) and gain the basic facility in operating systems configu	-				nception a
B6B36SPS	Computer Networks Administration				Z,ZK	5
36B32TKS	Telecommunications Networks				,ZK	5
36B39TUR	User Interface Testing				,ZK	5
	e basic principles of user interface testing in the context of User-Centered Design. The co	urse covers the most	important to			-
un their own (either o	quantitative or qualitative) user interface tests. Another important part of the course is the	topic of disabilities th	at users car	n suffer from	. The tutorials	cover the
entire cycle of conduc	cting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluation	ng.				
B0B39KAJ	Client applications in JavaScript			Z	Z,ZK	5
B6B16ZMI	Marketing Research			Z	Z,ZK	5
B6B39TDM	3D Modeling				KZ	5
equirement	group: Humanities, language courses, physical train credits in the group: courses in the group:	ing				
Requirement Requirement Credits in the	credits in the group: courses in the group: group: 0	ing				
Requirement	credits in the group: courses in the group: group: 0 Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
Requirement Requirement Credits in the Note on the g	 credits in the group: courses in the group: group: 0 group: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) 		Credits 2	Scope 2C	Semester Z,L	Role
Requirement Requirement Credits in the Note on the <u>c</u> Code	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) 	Completion	2	2C	Z,L	V
Requirement Requirement Credits in the Note on the <u>c</u> Code	 credits in the group: courses in the group: group: 0 group: 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				
Requirement Requirement Credits in the Note on the g Code A0B04GA	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 	Completion	2	2C	Z,L	V
Requirement Requirement Credits in the Note on the g Code A0B04GA A0B04KA B0B04A21	credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2	Completion Z Z	2	2C 2C	Z,L Z,L	V V
Requirement Requirement Credits in the Note on the g Code	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 	Completion Z Z Z	2	2C 2C 2s	Z,L Z,L Z	V V V
Requirement Requirement Credits in the Note on the g Code AOB04GA AOB04KA BOB04A21 BOB04A22	credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2	Completion Z Z Z Z Z	2 2 0	2C 2C 2s 2s	Z,L Z,L Z L	v v v v
Requirement Requirement Credits in the lote on the g Code AOB04GA AOB04KA BOB04A21 BOB04A22 BOB04B11	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 	Completion Z Z Z Z Z Z Z	2 2 0 0	2C 2C 2s 2s 2s 2C	Z,L Z,L Z L Z	V V V V V
Requirement Requirement Credits in the lote on the g Code A0B04GA A0B04KA B0B04A21 B0B04A21 B0B04A22 B0B04B11 B0B04B12 B0B04B12	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z	2 2 0 0 0	2C 2C 2s 2s 2c 2C 2C	Z,L Z,L Z L Z L	V V V V V V
Requirement Requirement Credits in the lote on the g Code AOB04GA AOB04GA AOB04KA BOB04A21 BOB04A21 BOB04B11 BOB04B12 BOB04B21 BOB04B22	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3	2C 2C 2s 2s 2c 2C 2C 2C	Z,L Z,L Z L Z L Z	V V V V V V V
Requirement Requirement Credits in the lote on the g Code A0B04GA A0B04KA B0B04A21 B0B04A21 B0B04A21 B0B04A21 B0B04A22 B0B04B12	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3 3 3	2C 2C 2s 2s 2c 2C 2C 2C 2C	Z,L Z,L Z L Z L Z Z Z,L	V V V V V V V V
Requirement Requirement Credits in the lote on the g Code AOB04GA AOB04GA AOB04KA BOB04A21 BOB04A21 BOB04A22 BOB04B12 BOB04B12 BOB04B22 AOB04OA	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language A2-2 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 2 	Completion Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3 3 2	2C 2C 2s 2s 2c 2C 2C 2C 2C 2C 2C	Z,L Z,L Z L Z L Z Z Z,L Z,L	V V V V V V V V V
Requirement Requirement Credits in the lote on the g Code AOB04GA AOB04GA AOB04KA BOB04KA BOB04A21 BOB04A22 BOB04B11 BOB04B12 BOB04B21 BOB04B22 AOB04CA AEOB04C0 AOB04C2Z	 credits in the group: courses in the group: group: 0 group: Name of the course / Name of the group of courses (<i>in case of groups of courses the list of codes of their members</i>) Tutors, authors and guarantors (gar.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3 3 2 2 2	2C 2C 2s 2s 2c 2C 2C 2C 2C 2C 2C 2C	Z,L Z,L Z L Z L Z Z,L Z,L *	V V V V V V V V V V V
Requirement Requirement Credits in the lote on the g Code AOB04GA AOB04GA AOB04GA BOB04GA BOB04A21 BOB04A21 BOB04A22 BOB04B11 BOB04B12 BOB04B22 AOB04CA ACOB04C2 AOB04C2L	 credits in the group: courses in the group: group: 0 group: 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.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 2 Jitka Pinková Petra Juna Jennings (Gar.) Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3 3 2 2 2 2	2C 2C 2s 2s 2c 2C 2C 2C 2C 2C 2C 2C 2C 2C 2C	Z,L Z,L Z L Z L Z Z,L Z,L X Z	V V V V V V V V V V V V
Requirement Requirement Credits in the lote on the <u>c</u> Code AOB04GA AOB04GA AOB04KA BOB04A21 BOB04A22 BOB04B11 BOB04B12 BOB04B22 AOB04C0	 credits in the group: courses in the group: group: 0 group: Name of the course / Name of the group of courses (<i>in case of groups of courses the list of codes of their members</i>) Tutors, authors and guarantors (gar.) Petra Juna Jennings Petra Juna Jennings (Gar.) English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language A2-1 Dana Saláková English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.) Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) 	Completion Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 0 0 0 3 3 3 2 2 2 2 2 2	2C 2C 2s 2s 2c 2C 2C 2C 2C 2C 2C 2C 2C	Z,L Z,L Z L Z L Z,L Z,L Z,L * Z L	V V V V V V V V V V V V V V

Philosophy Peter Zamarovský Peter Zamarovský (Gar.)

ΖK

2P+0S

2

Z,L

V

B0B16FIL

B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	V
A0B04KF1	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F1	French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F2	French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F3	French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B39GRT	Graphical Design Lucie Svobodová Lucie Svobodová (Gar.)	KZ	5	2P+2S	Z,L	V
B0B16HTE	History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)	KZ	4	2P+2S	Z	V
A0B04JAP	Japanese Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B16MPS	Psychology Jan Fiala Jan Fiala Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	V
A0B04GN	German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN	German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN2	German conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N1	German language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N2	German language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N3	German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04ON	Professional German Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE1	Certificate of Advanced English CAE 1 Petra Juna Jennings Pavla Péterová (Gar.)	Z	2	2C	Z,L	V
A0B04CAE2	Certificate of Advanced English CAE 2 Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE3	Certificate of Advanced English CAE 3 Petra Juna Jennings, Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	v
A0B04CAE4	Certificate of Advanced English 4 Pavla Péterová	Z		2C	Z,L	V
A0B04FCE1	FCE 1 Petra Juna Jennings	Z	2	2C	*	V
A0B04FCE2	FCE 2 Petra Juna Jennings	Z	2	2C	*	V
A0B04FCE4	FCE4 Dana Saláková	Z	2	2C	Z,L	V
A0B04FCE3	FCE 3 Petra Juna Jennings	Z	2	2C	Z,L	V
A0B04PZP	Preparation for stay in Germany Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B16MPL	Petra Julia Jennings Petra Julia Jennings (Gal.) Psychology for managers Jan Fiala Jan Fiala Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	V
A0B04RET	Rhetoric Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR	Russian conversation Dana Saláková	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2 Dana Saláková	Z	2	2C	*	V
A0B04R1	Russian language 1 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R2	Russian language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R3	Russian language 3 Jitka Pinková	Z	2	2C	*	V
A0D04D4	Russian language 3	Z	2	2C	*	V
A0B04R4	Dana Saláková					

A0B04KS2	Spanish conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S1	Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	v
A0B04S2	Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S3	Spanish language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04CA	Technical English for Pre-Intermediate Dana Saláková	Z	2	2C	L	V
TVV	Physical education	Z	0	0+2	Z,L	V
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V
A0B04GA The aim of this course is to e supplement for students who A0B04KA En	e courses of this group of Study Plan: Code=BSITHJKTV Name extend and complement grammatical patterns covered in other English courses that ar b have not yet passed the B2 examination and are interested in further study and addit glish Conversation 2 tudents who want to develop their communication skills. Students will be given the opp	e intended for full- ional practice.	time studer	ts. The cou	Z rse is mear Z	2 It mainly as a 2
new words and phrases, to c	communicate on a variety of topics and themes. This course is not designed for beginn glish Language A2-1	-			Z	
The course is open to studer	nts who are beginners in their second language. Course objective: Achieving competer	nce in basic Engli	sh.			
	glish Language A2-2 nts who are beginners in their second foreign language. The course objective is to deve	elop and sustain t	heir basic k	nowledge of	Z the Englis	0 n language.
	glish Language B1-1				Z	0
Course objective: Broadening English.	g the basic knowledge of general English; mastering basic specialised language; focusir	ng on text analysis	and vocabu	lary expans	ion; unders	tanding spoken
-	glish Language B1-2				7	0
	g the basic knowledge of general English; mastering basic specialised language; focusir	ng on text analysis	and vocabu	lary expans	ion; unders	tanding spoken
English.	slick Language D0.4				7	3
	glish Language B2-1 full-year, two semester preparation course for the universitys compulsory B2-level Eng	lish Examination	(Anglický ja	 zyk B2 - zko		U U
the course is focused on help	ping students reach a level required to pass the B2-level English Examination (or impr	ove their English f	or a higher	mark), it als	o focuses r	nore on the
academic and technical voca / International Study.	bulary and grammar expected of students at the university level. *NOTE: This exam is a	llso used for deter	mining an a	ppropriate le	evel of Engl	ish for Erasmus
	glish Language B2-2				Z	3
	full-year, two semester preparation course for the universitys compulsory B2-level Eng	lish Examination	(Anglický jaz	zyk B2 - zko	1	-
	ping students reach a level required to pass the B2-level English Examination (or impro-	0	•			
/ International Study.	bulary and grammar expected of students at the university level. *NOTE: This exam is a	liso used for deter	mining an a	ppropriate ie	ever or Engi	ISTI IOT ETASTITUS
	chnical English Course				Z	2
	tudents who have successfully passed the B2 Exam or have met the exam requirement	,				
	er in English in a variety of formats. This will be practiced by examining the structure and explanatory article, and a research article.	a style of writing in	i iormai Eng	lish and pra	cucing via .	s amerent types
	ech Language 0				Z	2
	ERASMUS students - especially beginners. The course is taught on the basis of Engl					
during their stay in the Czeck	ronunciation, vocabulary and grammar structure of the Czech language, and also provide h Republic.	e them with basic (isetui phras	es needed to	or everyday	communication
	ech language 2				Z	2
	gn students studying in Czech, it further develops their language knowledge and skills	to meet the need	s of technica	al university		
	ech language 2	to montthe pood	oftooboio		Z	2
A0B04CIN	gn students studying in Czech, it further develops their language knowledge and skills	to meet the need:			Z	2
	nic 1				KZ	4
Aim of this subject is to provi	de the students an orientation not only in general problems of ethics but above all to of		-	ious situatio	ons of huma	n life. Essential
	ussions in which students can react to lectures but also to actual questions coming with	h news and look f	or the comn		ers. ZK	2
	ilosophy tant persons, schools and ideas of ancient philosophy. We are concerned especially o	n transdisciplinary	nature of p	1	1	
philosophical thoughts with r	ecent problems of science, technology, economics and politics.					
1	ilosophy 1 tast persons ischools and ideas of ancient philosophy. We are concerned especially o	n transdissipliner	nature of -	1	KZ	4 ion of old
	tant persons, schools and ideas of ancient philosophy. We are concerned especially o ecent problems of science, technology, economics and politics.	n aansuisulpiindi)		апозорну а		
	ench conversation 1				Z	2
A0B04KF2 Fre	ench conversation 1				Z	2

A0B04F2 F A0B04F3 F			
A0B04F3 F	rench language 1	Z	2
	rench language 2	Z	2
BOB39GRT G	rench Language 3	Z	2
-	Graphical Design	KZ	5
	view of graphical design and typography. It includes also a practical training in creating graphical design of electronical doo		
B0B16HTE H	listory of technology and economic	ZK	2
B0B16HT1 H	listory of science and technology 1	KZ	4
B0B16HI1 H	listory 1	KZ	4
A0B04JAP Ja	apanese	Z	2
	sychology	Z,ZK	4
	German Grammar	Z	2
	German Conversation	Z	2
	German conversation 2	Z	2
	German language 1	Z	2
	German language 2	Z	2
	* *		
	Serman language 3	Z	2
	Professional German	Z	2
1	Certificate of Advanced English CAE 1	Z	2
	prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers		
	age skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bas age in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be a		
, , ,	E is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course		
	ho require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries	-	-
for obtaining credit to take			
°	Certificate of Advanced English CAE 2	Z	2
	prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers	- 1	
	age skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bas		
the ability to use the langu	age in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be a	able to understand	and produce
	E is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course	-	-
	ho require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countrie	es. It is possible bu	it not necessary
-	CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.	r	
	Certificate of Advanced English CAE 3	Z	2
	prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers u	unit 9 - 12. Studyir	g for CAE helps
	age skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.		
	Certificate of Advanced English 4	Z	
	CE 1	Z	2
	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur		
B2 ELF.	ing all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain	ning the required s	skills needed for
		7	0
	CE 2	Z	2 Frome The
	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur ing all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtair		
	ng an anguage skins - whiting, speaking, reading, instenning, granninar and phonetics - and is submitted to the goal of obtain		
		ning the required a	
B2 ELF.	îcea		skills needed for
B2 ELF. A0B04FCE4 F	CE4	Z	skills needed for
B2 ELF. A0B04FCE4 F The course is aimed for stu	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur	Z ropean Language	kills needed for 2 Frame. The
B2 ELF. A0B04FCE4 F The course is aimed for stu		Z ropean Language	kills needed for 2 Frame. The
B2 ELF. A0B04FCE4 F The course is aimed for stu course focuses on improvin B2 ELF.	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur ng all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtair	Z ropean Language ning the required s	2 Frame. The skills needed for
B2 ELF. A0B04FCE4 F The course is aimed for stuce course focuses on improving B2 ELF. A0B04FCE3 F	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur	Z ropean Language ning the required s	2 Frame. The skills needed for 2
B2 ELF. A0B04FCE4 F The course is aimed for stuccourse focuses on improvine B2 ELF. A0B04FCE3 F The course is aimed for stuccourse is a	udents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur ng all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtair CE 3	Z ropean Language ning the required s Z mmon European F	2 Frame. The skills needed for 2 Framework of
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A0B04CA	Technical English for Pre-Intermediate	Z	2
TVV	Physical education	Z	0
A003TV	Physical Education	Z	2
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Code of the group: BSITMPV4

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Zaměření: Informační systémy a podnikání

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
B6B16FIP	Corporate finance Ji í Vaší ek, Old ich Starý, Josef ernohous Ji í Vaší ek Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2D	L	V
B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	Z	V
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	V
B6B16ZMI	Marketing Research Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2D	Z	V

Characteristics of the courses of this group of Study Plan: Code=BSITMPV4 Name=Compulsory subjects

B6B16FIP	Corporate finance	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5
B6B16ISP	Business Process Management	Z,ZK	5
B6B16ZMI	Marketing Research	Z,ZK	5

Code of the group: BSITMPV1 Name of the group: Compulsory subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Zaměření: Multimediální technologie

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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	V
B6B37MM2	Multimedia 2 František Rund, Jan Bedná , Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6D	L	V
B0B39PGR	Computer graphics programming Petr Felkel, Jaroslav Sloup Jaroslav Sloup Petr Felkel (Gar.)	Z,ZK	6	2P+2C+8D	L	V
B6B39TDM	3D Modeling David Sedlá ek David Sedlá ek David Sedlá ek (Gar.)	KZ	5	0P+4C+6D	Z	V

Characteristics of the courses of this group of Study Plan: Code=BSITMPV1 Name=Compulsory subjects

B0B39MM1	Multimedia 1	Z,ZK	6
The course gives studer	nts knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focu-	used on presentat	ion of standards,
technologies, methods	and approaches commonly used in commercial and alternative creation processes. The presented topics include production	process of multim	iedia 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 distri	pution of multimedia content. The part of the course is also a project with use of presented technologies and methods.		
B6B37MM2	Multimedia 2	Z,ZK	5
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B39TDM	3D Modeling	KZ	5

Code of the group: BSITMPV2 Name of the group: Compulsory subjects 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
B6B39PDA	Principles of mobile applications	Z,ZK	6	2P+2C	L	V
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	V
B0B39KAJ	Client applications in JavaScript Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)	Z,ZK	5	2P+2C	L	V

Characteristics of the courses of this group of Study Plan: Code=BSITMPV2 Name=Compulsory subjects

Principles of mobile applications	Z,ZK	6
y passed the course get overview about properties and about limits of single mobile technologies. The course is focused on	specific problems	related to
abilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile applicati	on is used. Cours	e is not focused
programming techniques for mobile application development - it is expected that students already have this skills or will be g	ained by means o	of self-study.
Business Process Management	Z,ZK	5
Client applications in JavaScript	Z,ZK	5
	ly passed the course get overview about properties and about limits of single mobile technologies. The course is focused on abilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile applicati programming techniques for mobile application development - it is expected that students already have this skills or will be g Business Process Management	ly passed the course get overview about properties and about limits of single mobile technologies. The course is focused on specific problems abilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is used. Cours programming techniques for mobile application development - it is expected that students already have this skills or will be gained by means or Business Process Management Z,ZK

Code of the group: BSITMPV3

Name of the group: Compulsory subjects

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

Zaměření: Siťový specialista

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
B6B32DSV	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	5	2P + 2L + 4D	z	V
B6B32ST2	Advanced Networking Technologies Leoš Bohá Leoš Bohá Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	V
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	V
B6B36SPS	Computer Networks Administration Jan Kubr	Z,ZK	5	2P+2C+3D	L	V
B6B32TKS	Telecommunications Networks Ivan Pravda	Z,ZK	5	2P + 2L + 2D	L	V

Characteristics of the courses of this group of Study Plan: Code=BSITMPV3 Name=Compulsory subjects

B6B32DSV	Distributed Computing	Z,ZK	5
The course is focused	I on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of app	lication processes	, programming
interfaces of commun	ication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms th	nat assure causali	ty, exclusive
access, deadlock dete	ection/avoidance, fault-tolerance, mobile computing, and security.		
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating sys	stems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be info	ormed about basic	c conception an
procedures in operation	ng systems administration (UNIX) and gain the basic facility in operating systems configuration based on the x 86 platforms.		
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B32TKS	Telecommunications Networks	Z,ZK	5
		•	•

Code of the group: BSTMVOLSI Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 ~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách Note on the group:

List of courses of this pass:

Code	Name of the course	Completion	Credits
A003TV	Physical Education	Z	2
A0B04C2L	Czech language 2	Z	2
The course	is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts.
A0B04C2Z	Czech language 2	Z	2
	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	_	
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based		•
	ranguage shirs (reaching, writing, English in use, insteming and speaking) and use them in a wide range of contexts. The example based the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions, expressing opinions clearly and be able to participate in meetings and discussions.		
-	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses ta		-
as well as by emplo	yers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	t is possible but no	t necessary
	for obtaining credit to take CAE at British Council.		
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni		-
	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able		
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses ta		
	byers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	•	
	for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester	er.	
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the cour	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit		r CAE helps
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co		
A0B04CAE4	Certificate of Advanced English 4	Z	
A0B04CIN		Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
A0B04FCE1	FCE 1	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	g the required skills	
A0B04FCE2	FCE 2	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	pean Language Fi	1
course focuses on	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	the required skills	needed for
	B2 ELF.		
A0B04FCE3	FCE 3	_ Z _	2
	ed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Communication (CEED). The source for the faculty and the public whose knowledge of English corresponds to B1 level according to the Communication of the source of the sour	-	
Reference for Lang	uages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - a obtaining the required skills needed for B2 CEFR.	and is submitted it	o the goal of
A0B04FCE4	FCE4	7	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	pean Language Fi	
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining		
	B2 ELF.		
A0B04GA		Z	2
The aim of this co	urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The		nainly as a
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract		0
A0B04GN	German Grammar	Z Z	2
A0B04JAP	Japanese		2
A0B04KA	English Conversation 2 gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a	Z	2 ell as learn
	new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.	aneady know, as w	
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04KR	Russian conversation	Z	2
A0B04KR2	Russian conversation 2	Z	2
A0B04KK2	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2	Z	2
A0B04N02	German language 1	Z	2
A0B04N2	German language 2	Z	2
		<u> </u>	<u> </u>

A0B04N3	German language 3	Z	2
A0B04OA	Technical English Course	Z	2
This course is designed	d for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude	nts to be able to c	ommunicate
about technical subject	t matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article.	practicing via 3 di	fferent types
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
	subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the		
bachelors. This subjec	t will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologic so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	al barriers for put	olic speaking
A0B04S1	Spanish language 1	Z	2
A0B04S1	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
AE0B04C0	Czech Language 0	Z	2
	wards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the		
	bout pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases needed	-	
	during their stay in the Czech Republic.		1
B0B04A21	English Language A2-1	Z	
	The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic Er	•	
B0B04A22	English Language A2-2	Z	0
	o students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowled		language.
B0B04B11	English Language B1-1 dening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	Z ansion: understar	U U
Bioline Bioline. Biol	English.		ang oponon
B0B04B12	English Language B1-2	Z	0
Course objective: Broa	dening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion	ansion; understar	ding spoken
	English.		1
B0B04B1K	English language B1 - classified assessment	KZ	0
	verifying of the student's skills of B1 level		
B0B04B21	English Language B2-1 d as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 -	Z	3 B27*) While
-	d as a full-year, two semester preparation course for the dimensitys comparisory B2-level English Examination (Anglicky Jazyk B2- d on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark),		
	al vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriat		
	/ International Study.		
B0B04B22	English Language B2-2	Z	3
° °	d as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - a		,
	d on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), al vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an approprial		
	/ International Study.		
B0B04B2Z	English language B2 - exam	Z,ZK	0
I) The B2 English Exa	n is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Stud		n Rules and
-	nts at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully com	plete the study pr	ogramme. In
	the pressing of an examination evoluted on the seale A. D. C. D. or E. (CEDD Dort III. Article C). II) Assorting to the Common Europ		
	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 Europ		
for Languages (CEFF	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2	(Upper-Intermed	ate) level is
for Languages (CEFF one who can understa	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 and the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati	(Upper-Intermedi on. Can interact w	ate) level is /ith a degree
for Languages (CEFF one who can understa of fluency and sponta	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2	(Upper-Intermedi on. Can interact v xt on a wide rang	ate) level is vith a degree e of subjects
for Languages (CEFF one who can understa of fluency and spontar and explain a viewpo	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 and the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati heity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed te int on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an is may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon approval, students are then	(Upper-Intermed on. Can interact w xt on a wide rang approved internat	ate) level is vith a degree e of subjects ional exam
for Languages (CEFF one who can understa of fluency and spontar and explain a viewpo within the past five yea	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 and the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati ineity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed territy that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed territy that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed territy on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed and is may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are them Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/	(Upper-Intermed on. Can interact w xt on a wide rang approved internat exempt from bot	ate) level is vith a degree e of subjects ional exam h the Written
for Languages (CEFF one who can understa of fluency and spontar and explain a viewpo within the past five year B0B16ET1	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 nd the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati ineity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed technical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed and rs may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon approval, students are then Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/ Ethic 1	(Upper-Intermed on. Can interact w xt on a wide rang approved internat exempt from bot	ate) level is vith a degree e of subjects ional exam h the Written
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for Languages (CEFF one who can understa of fluency and spontar and explain a viewpo within the past five year B0B16ET1 Aim of this subject is t parts of th B0B16FI1	t), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 nd the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati ieity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed te int on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an is may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon approval, students are them Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/ Ethic 1 oprovide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ a subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co	(Upper-Intermed on. Can interact w xt on a wide range approved internat exempt from bot KZ ations of human I mmunal answers KZ	ate) level is vith a degree e of subjects ional exam h the Written 4 fe. Essential
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B0B36DBS	Database Systems	Z,ZK	6
	gned 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 querying and	d to choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing t architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar	-	ase system
B0B36PJV	Programming in Java	Z,ZK	6
he course builds o	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course als	so focus on the ob	ject conce
	ge. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working witl An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowled		
of solving partial ta	asks and semester work, which will be submitted continuously through the source code version control system. The semester work so correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and r	0	oints for th
B0B39GRT	Graphical Design	KZ	5
The course grar	nts an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical doc	uments and hand	drawing.
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
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	-	
•	thods and approaches commonly used in commercial and alternative creation processes. The presented topics include production pro- dia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The co		
	of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and		JIODIEITIALI
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B01LAG	Linear Algebra	Z,ZK	7
B6B01MAA	Mathematics Analysis	Z,ZK	5
	ntroduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications and definite/indefinite integral with its applications, sequences and series.		-
B6B01PST	Statistics and Probability	Z.ZK	4
	be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications in	,	1 -
	probability 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		
and tran	nsformations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and t	testing hypotheses	S.
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
No advanced kno	owleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of c	combinatorics set	and graph
NU auvanceu kiit			• •
	theory. Then we proceed to a brief formal construction of predicate calculus.		
B6B04PRE	theory. Then we proceed to a brief formal construction of predicate calculus. Presentation	KZ	3
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B6B04PRE B6B16FIP B6B16INS The goal of this co "on the market" ex The fundamen implementation an	theory. Then we proceed to a brief formal construction of predicate calculus.	KZ Z,ZK KZ se, students are in types of information customer insight a	3 5 4 troduced to on systems systems and ability t
B6B04PRE B6B16FIP B6B16INS The goal of this co "on the market" ex The fundamen implementation an decide whether it is At the end of	theory. Then we proceed to a brief formal construction of predicate calculus.	KZ Z,ZK KZ se, students are ir types of information customer insight a stem implementat s topics are discus	3 5 4 troduced to on systems systems and ability t ion succes ssed.
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B6B36PRO	Semestral Project	KZ	6
	am work in form of a project. Student selects the subject of their project from the list of topics relevant to the studied specialization an	d provided by the	specific
department/departn	nents. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution o the web pages of the selected department. Within this course the project is also defended.	f the projects car	be found or
B6B36RSP	Management of Software Projects	Z,ZK	6
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
1	the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge on graphic notation - UML.	,	-
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B36ZPR	Introduction to Project Management	KZ	3
The course introdu	ices students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning	, organization, et	c.) students
also get practic	al experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in	the consecutive	courses.
B6B37MM2	Multimedia 2	Z,ZK	5
B6B38ZPS	Basics of Computer Systems	Z,ZK	6
-	oduces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital t		
and function of the	processor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor pe	rformance and th	eir limits wi
	e computer architecture description, memories and their categorization in terms of functional principles and application use will be ba		-
	re focused on getting acquainted with operating systems, multitasking, inter-process communication and synchronization, resource m	•	
	I deal with the computer networks - first in general (OSI model) and then more specifically with an introduction to TCP / IP protocols. Fi		-
ubsystem will be a	escribed in more detail, including disk partitioning, file systems, and access rights. Finally the basics of electronics and optoelectronic students to further deepen their knowledge in this area through solf study will be introduced.	s, typical problem	ns motivatir
B6B39PDA	students to further deepen their knowledge in this area through self-study will be introduced.	Z.ZK	6
1	Principles of mobile applications cessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on s	,	6
	capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is		
	basic programming techniques for mobile application development - it is expected that students already have this skills or will be gai		
B6B30TDM	3D Modeling		
B6B39TDM	3D Modeling	KZ	5
B6B39TUR	User Interface Testing	KZ Z,ZK	5
B6B39TUR Students will learn	User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in	KZ Z,ZK this field so that s	5 5 students car
B6B39TUR Students will learn	User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in er quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer	KZ Z,ZK this field so that s	5 5 students car
B6B39TUR Students will learn run their own (eith	User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in er quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.	KZ Z,ZK this field so that s from. The tutoria	5 5 students can s cover the
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B6B39TUR Students will learn run their own (eith B6B39ZMT The course famil principles of grap section of the cours they use several of composition B6B39ZWA	User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in the quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can suffer entire cycle of conducting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating. Foundations of Multimedia Production iarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, vide hic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, stee divided into two lectures and two workshops each day. Students will acquire the practical principles in the acquisition and processing different types of instruments at the application level and at the level of simple code. All students will apply the knowledge gained with on rules within a Web project. After completing the course, students will carry out their own independent project and after its submission.	KZ Z,ZK this field so that s from. The tutoria KZ to and audio, as v udents gradually ng of multimedia in the last day de ion will be assess Z,ZK	5 students can ls cover the 3 well as the pass each content while dicated to red. 5
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