## 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: Common courses

Garantor of the study branch:

Program of study: Software Engineering and Technology

Type of study: Bachelor 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 meila Roman meila (Gar.)	Z	20	12S	L,Z	Р

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

BBAP20 Bachelor thesis Z 20
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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:

<u> </u>						
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	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 equi	pment.	
BF77	Basic health and occupational safety regulations	7	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: BSITBBE2

Name of the group: Safety of the bachelor's studies 2

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

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 Note on the group:

Note on the gro	•					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B0B36DBS	Database Systems Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	L	Р
B6B01LAG	Linear Algebra Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Р
B6B04PRE	Presentation Petra Jennings, Jitka Pinková Jitka Pinková Petra Jennings (Gar.)	KZ	3	1P+1C	Z	Р
B0B36PJV	Programming in Java Ji í Vok ínek, Martin Mudroch, Ladislav Serédi <b>Ji í Vok ínek</b> Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7D	L	Р
B6B36SMP	Analysis and Modeling of Software Requirements  Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36TS1	Software Testing Karel Frajták, Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
B6B36ZAL	Introduction to Programming Ji í Vok ínek Ji í Vok ínek Ji í Vok ínek (Gar.)	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 <b>Ji í Novák</b> Ji í Novák (Gar.)	Z,ZK	6	4P+2L+2D	Z	Р
B6B36ZPR	Introduction to Project Management Pavel Náplava Pavel Náplava Pavel Náplava (Gar.)	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 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.

B6B01LAG	Linear Algebra	Z,ZK	7
B6B04PRE	Presentation	KZ	3
B0B36PJV	Programming in Java	Z,ZK	6

The course builds on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course also focus on the object concept of the Java language. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with files and using generic types will be introduced. An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledge of Java is tested in the form of solving partial tasks and semester work, which will be submitted continuously through the source code version control system. The semester work scoring consists of points for the correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and reusability.

П	B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
-	This course covers the t	opic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledg	e on using the mo	st widely spread
۱,	graphic notation - UMI			

• 1			
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
1			

No advanced knowleges of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding of combinatorics, set and graph theory. Then we proceed to formal construction of propositional calculus.

B6B39ZMT Foundations of Multimedia Production

The source familiarizes students with the basic principles of acquisities and processing of multimedia content, with a feaux an image processing of multimedia content, with a feaux an image processing of multimedia content, with a feaux an image processing of multimedia content, with a feaux an image processing of multimedia content, with a feaux an image processing of multimedia content.

The course familiarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, video and audio, as well as the principles of graphic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, students gradually pass each 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.

B6B38ZPS Basics of Computer Systems

Z,ZK

6

The first topic introduces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital technology, internal structure and function of the processor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor performance and their limits will be introduced. The computer architecture description, memories and their categorization in terms of functional principles and application use will be based on this knowledge. The following lectures are focused on getting acquainted with operating systems, multitasking, inter-process communication and synchronization, resource management and virtualization. The next lecture will deal with the computer networks - first in general (OSI model) and then more specifically with an introduction to TCP / IP protocols. Further the disk (mass storage) subsystem will be described in more detail, including disk partitioning, file systems, and access rights. Finally the basics of electronics and optoelectronics, typical problems motivating students to further deepen their knowledge in this area through self-study will be introduced.

B6B36ZPR Introduction to Project Management

ΚZ

3

The course introduces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning, organization, etc.) students also get practical experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in the consecutive courses.

B6B39ZWA Foundations of Web Applications

7.7K

5

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.

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 Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36EAR	Enterprise Architectures Petr K emen, Petr Aubrecht Petr K emen Petr K emen (Gar.)	KZ	5	2P+2C+2D	Z	Р
B6B16INS	Information Systems Pavel Náplava, Jan Ko í Pavel Náplava Pavel Náplava (Gar.)	KZ	4	2P+2S+3D	L	Р
B6B32KAB	Cryptography and Information Security Tomáš Van k Petr Hampl Tomáš Van k (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	Р
B6B01MAA	Mathematics Analysis Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
B6B36NSS	Design of Software Systems Jií Šebek Jií Šebek Jií Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
В6В36ОМО	Object-oriented design and Modeling David Kadle ek David Kadle ek David Kadle ek (Gar.)	Z,ZK	6	2P+2C+4D	Z	Р
B6B32PSI	Computer Networks Zbyn k Kocur, Tomáš Van k, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	Z	Р
B6B01PST	Statistics and Probability Kate ina Helisová, Jakub Stan k, Miroslav Korbelá , Veronika Sobotíková Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	4	2P+2S+1D	L	Р
B6B16PIT	Law for IT Martin Dobiáš, Michal Briaský <b>Martin Dobiáš</b> 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.)	KZ	4	2P+2C+2D	Z	Р
B6B36RSP	Management of Software Projects Karel Frajták, Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	6	3P+2C+3D	L	Р
B6B16ZPD	Business Economics Martin Dobiáš, Ji í Vaší ek, Martin Horák, Blanka Ku erková <b>Martin Dobiáš</b> Martin Dobiáš (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р

# 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 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. 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 as their semestral work.

B6B16INS Information Systems	KZ	4
The goal of this course is to familiarise students with the information systems topic and information systems implementation principles. During the co		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	er types of informat	ion systems.
The fundamental part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, way	ys of information sy	stems
implementation and information system implementation based on the project management principles. The emphasis is on the initial customer analys	is, customer insigh	t 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	n system implemen	tation success.
At the end of the course information systems security, operation, support, maintenance, legislation impacts, and government information systems to	pics are discussed.	
B6B32KAB Cryptography and Information Security	Z,ZK	5
The Information Security course provides a complete source of information on the field of security of information systems and information technologies	s. The most of infor	mation in today
society is created, transferred, stored in electronic form so information security is very important part of it. Technical background for information secu	rity is provided by o	cryptology.
B6B01MAA Mathematics Analysis	Z,ZK	5
This course is an introduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications.	ions (graphing, Tay	lor polynomial)
and definite/indefinite integral with its applications, sequences and series.		
B6B36NSS Design of Software Systems	Z,ZK	5
B6B36OMO Object-oriented design and Modeling	Z,ZK	6
		-
B6B32PSI Computer Networks	Z,ZK	5
B6B32PSI Computer Networks B6B01PST Statistics and Probability	Z,ZK Z,ZK	5 4
	Z,ZK	4
B6B01PST Statistics and Probability	Z,ZK s in practice. The c	4 ourse covers
B6B01PST Statistics and Probability  The students will be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application	Z,ZK s in practice. The c	4 ourse covers eory of random
B6B01PST Statistics and Probability The students will be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application the basic parts of probability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part is focused on classical probability.	Z,ZK s in practice. The court deals with the the	4 ourse covers eory of random
B6B01PST Statistics and Probability  The students will be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their application the basic parts of probability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next partiables and their distributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variables.	Z,ZK s in practice. The court deals with the the	4 ourse covers eory of random

Z,ZK

Z,ZK

Code of the group: BSITPRO Name of the group: Project

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

Management of Software Projects

**Business Economics** 

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

Credits in the group: 6 Note on the group:

B6B36RSP

B6B16ZPD

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, Martin Tomášek, Ji í Šebek, Ivan Jelínek <b>Ji í Vok ínek</b> Ji í Vok ínek (Gar.)	KZ	6	2s	L,Z	Р

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

B6B36PRO	Semestral Project	KZ	6	l
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 an	d provided by the	specific	ı
department/departments	s. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resoluti	on of the projects	can be found on	l
the web pages of the se	lected 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 Jennings, Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková Petra Jennings Petra Jennings (Gar.)	KZ	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Petra Jennings, Michael Ynsua, Dana Saláková Petra Jennings Petra 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

7.7K

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/

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, Lukáš Kencl Peter Macejko Lukáš Kencl (Gar.)	Z,ZK	5	2P + 2L + 4D	Z	PV
B6B16FIP	Corporate finance Ji í Vaší ek, Old ich Starý, Josef ernohous <b>Ji í Vaší ek</b> Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2D	L	PV
B6B16MPR	Decision Making Methods  Martin Dobiáš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	Z	PV
B0B39MM1	Multimedia 1 Roman Berka, František Rund, Libor Husník František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L+8D	Z	PV
B6B37MM2	Multimedia 2 František Rund, Jan Bedná, Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6D	L	PV
B6B32ST2	Advanced Networking Technologies Leoš Bohá Zbyn k Kocur Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	PV
B6B39PDA	Principles of mobile applications  Ivo Malý Ivo Malý Ivo Malý (Gar.)	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+2D	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	Z,ZK	5	2P+2C+3D	L	PV
B6B32TKS	Telecommunications Networks Ivan Pravda, Jaromír Hrad Ivan Pravda Jaromír Hrad (Gar.)	Z,ZK	5	2P + 2L + 2D	L	PV
B6B39TUR	User Interface Testing	Z,ZK	5	2P+2S+2D	Z	PV
В0В39КАЈ	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+2D	Z	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=BSITMPV Name=Compulsory subjects

access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.						
deadlest detection for the bloom of the bloom of the bloom of the same of the						
nterfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive						
The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of application processes, programming						
B6B32DSV   Distributed Computing   Z,ZK   5						

B6B16FIP	Corporate finance	Z,ZK	5
B6B16MPR	Decision Making Methods	Z,ZK	5

B0B39MM1	Multimedia 1	Z,ZK	6
The course gives stu	dents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are fo	cused on presentation	on of standards,
technologies, method	ds and approaches commonly used in commercial and alternative creation processes. The presented topics include production	n process of multime	edia content,
	a applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. T	he course also conta	in problematics
of archivation and dis	stribution 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
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B39PDA	Principles of mobile applications	Z,ZK	6
Student who success	sfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused o	n specific problems	related to
limitations and new of	apabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile applica	ition is used. Course	is not focused
on introduction of ba	sic programming techniques for mobile application development - it is expected that students already have this skills or will be	gained by means of	self-study.
B6B16ISP	Business Process Management	Z,ZK	5
B0B39PGR	Computer graphics programming	Z,ZK	6
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating sy	rstems, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be in	formed about basic	conception and
procedures in operat	ing 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
B6B39TUR	User Interface Testing	Z,ZK	5
Students will learn th	e basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topic	s in this field so tha	t students can
run their own (either	quantitative or qualitative) user interface tests. Another important part of the course is the topic of disabilities that users can su	uffer from. The tutoria	als cover the
entire cycle of condu	cting tests (incl. infrastructure, ethics concerns), running tests and methods for its evaluating.		
B0B39KAJ	Client applications in JavaScript	Z,ZK	5
B6B16ZMI	Marketing Research	Z,ZK	5

5

ΚZ

Name of the block: Elective courses Minimal number of credits of the block: 0

3D Modeling

The role of the block: V

B6B39TDM

Code of the group: BSITHJKTV

Name of the group: Humanities, language courses, physical training

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

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
A0B04GA	Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KA	English Conversation 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
B0B04A21	English Language A2-1 Dana Saláková	Z		2s	Z	V
B0B04A22	English Language A2-2 Dana Saláková	Z	0	2s	L	V
B0B04B11	English Language B1-1 Petra Jennings Petra Jennings (Gar.)	Z	0	2C	Z	V
B0B04B12	English Language B1-2 Petra Jennings Petra Jennings (Gar.)	Z	0	2C	L	V
B0B04B21	English Language B2-1 Petra Jennings Petra Jennings (Gar.)	Z	3	2C	Z	V
B0B04B22	English Language B2-2 Petra Jennings Petra Jennings (Gar.)	Z	3	2C	Z,L	V
A0B04OA	Technical English Course Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
AE0B04C0	Czech Language 0 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04C2Z	Czech language 2 Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	Z	V
A0B04C2L	Czech language 2 Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	L	V
A0B04CIN	Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
B0B16ET1	Ethic 1 Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	V
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	V

B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	V
A0B04KF1	French conversation 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F1	French language 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F2	French language 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F3	French Language 3 Petra Jennings Petra 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 (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1  Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)  Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1	KZ	4	2P+2S	Z	V
A0B04JAP	Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)  Japanese	Z	2	2C	*	V
B0B16MPS	Petra Jennings Petra Jennings (Gar.) Psychology	Z,ZK	4	2P+2S	Z,L	V
A0B04GN	Jan Fiala Jan Fiala Jan Fiala (Gar.)  German Grammar	Z	2	2C	_,_ Z,L	V
A0B04KN	Petra Jennings Petra Jennings (Gar.)  German Conversation		2	2C	Z,L	V
A0B04KN2	Petra Jennings Petra Jennings (Gar.)  German conversation 2	Z	2	2C	*	V
A0B04N1	Petra Jennings Petra Jennings (Gar.)  German language 1	Z	2	2C	*	V
	Petra Jennings Petra Jennings (Gar.)  German language 2				*	-
A0B04N2	Petra Jennings Petra Jennings (Gar.)  German language 3	Z 	2	2C	*	V
A0B04N3	Petra Jennings Petra Jennings (Gar.) Professional German	Z	2	2C		V
A0B04ON	Petra Jennings Dana Lisá (Gar.)	Z	2	2C	Z,L	V
A0B04CAE1	Certificate of Advanced English CAE 1 Pavla Péterová Pavla Péterová (Gar.)	Z	2	2C	Z,L	V
A0B04CAE2	Certificate of Advanced English CAE 2 Pavla Péterová Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE3	Certificate of Advanced English CAE 3 Pavla Péterová Petra 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 Jennings	Z	2	2C	*	V
A0B04FCE2	FCE 2 Petra Jennings	Z	2	2C	*	V
A0B04FCE4	FCE4 Dana Saláková	Z	2	2C	Z,L	V
A0B04FCE3	FCE 3 Petra Jennings	Z	2	2C	Z,L	V
A0B04PZP	Preparation for stay in Germany Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
B0B16MPL	Psychology for managers  Jan Fiala Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	V
A0B04RET	Rhetoric  Jitka Pinková Petra 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	Z	2	2C	*	V
A0B04R2	Jitka Pinková Petra Jennings (Gar.)  Russian language 2	Z	2	2C	*	V
A0B04R3	Jitka Pinková Petra Jennings (Gar.)  Russian language 3	Z	2	2C	*	V
A0B04R4	Jitka Pinková  Russian language 3	Z	2	2C	*	V
A0B04KS1	Dana Saláková  Spanish conversation 1	 	2	2C	*	V
A0B04KS2	Petra Jennings         Petra Jennings (Gar.)           Spanish conversation 2		2	2C	*	V

A0D0404	Spanish language 1	7		00	*	
A0B04S1	Petra Jennings Petra Jennings (Gar.)	Z	2	2C		V
A0B04S2	Spanish language 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04S3	Spanish language 3 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Jennings Petra 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	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
Characteristics of th	e courses of this group of Study Plan: Code=BSITHJKTV Name=	.Humanities	language	COURS	e nhv	sical trainin
A0B04GA	e courses of this group of Study Flatt. Code=BSITH3KTV Name=	-numanilies	, iaiiguage	Course	7	2
	extend and complement grammatical patterns covered in other English courses that are	intended for full-	time students	The cou	_	_
- ' '	to have not yet passed the B2 examination and are interested in further study and addition	onal practice.			_	
	nglish Conversation 2 students who want to develop their communication skills. Students will be given the oppo	ortunity to use the	e vocabulary i	hev alread	Z dy know a	2 as well as learn
	communicate on a variety of topics and themes. This course is not designed for beginne	•			., mov, c	
	nglish Language A2-1				Z	
	ents who are beginners in their second language. Course objective: Achieving competence	ce in basic Englis	sh.		7	
	nglish Language A2-2 ents who are beginners in their second foreign language. The course objective is to devel	lop and sustain t	heir basic kno	  wledae of	_	0 sh language.
	nglish Language B1-1	.,			Z	0
•	ng the basic knowledge of general English; mastering basic specialised language; focusing	g on text analysis	and vocabula	ry expans	ion; under	standing spoke
English.  B0B04B12 Er	nglish Language B1-2				Z	0
	ignon Language D1-2 ng the basic knowledge of general English; mastering basic specialised language; focusinç	g on text analysis	and vocabula	lry expans		
English.						
	nglish Language B2-1 a full-year, two semester preparation course for the university's compulsory B2-level Engl	ich Evamination	(Analický isz	  k B2   zko	Z	3 B04B27*) While
	elping students reach a level required to pass the B2-level English Examination (or impro					-
	abulary and grammar expected of students at the university level. *NOTE: This exam is also	so used for deter	mining an app	ropriate le	evel of Eng	lish for Erasmu
/ International Study. B0B04B22 Er	nglish Language B2-2				Z	3
	a full-year, two semester preparation course for the university's compulsory B2-level Engli	ish Examination	(Anglický jazy	 k B2 - zko	_	1
	lping students reach a level required to pass the B2-level English Examination (or impro	_	-			
academic and technical voc / International Study.	abulary and grammar expected of students at the university level. *NOTE: This exam is als	so used for deter	mining an app	ropriate le	evel of Eng	lish for Erasmu
	echnical English Course				Z	
This course is designed for	students who have successfully passed the B2 Exam or have met the exam requirement.				_	2
•	· · · · · · · · · · · · · · · · · · ·	-			to be able	to communicate
	ter in English in a variety of formats. This will be practiced by examining the structure and	-			to be able	to communicate
	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.	-			to be able	to communicate
AE0B04C0 C2 The course is aimed toward	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article. zech Language 0 Is ERASMUS students - especially beginners. The course is taught on the basis of Englis	style of writing in	formal English	sh and pra	to be able cticing via  Z  urse is to o	to communicate 3 different type 2 give the student
AE0B04C0 C2 The course is aimed toward first hand information about	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of English pronunciation, vocabulary and grammar structure of the Czech language, and also provide	style of writing in	formal English	sh and pra	to be able cticing via  Z  urse is to o	to communicate 3 different type 2 give the student
AE0B04C0 C2 The course is aimed toward first hand information about during their stay in the Czec	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of English pronunciation, vocabulary and grammar structure of the Czech language, and also provide	style of writing in	formal English	sh and pra	to be able cticing via  Z  urse is to o	to communicate 3 different type 2 give the student
AE0B04C0 C2 The course is aimed toward first hand information about during their stay in the Czec A0B04C2Z C2	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  ZECH Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.	style of writing in sh language supp them with basic u	port. The goal	of the cou	Z urse is to gor everydag	to communicate 3 different type 2 give the student y communication
AE0B04C0 C2 The course is aimed toward first hand information about during their stay in the Czed A0B04C2Z C2 The course is aimed at fore A0B04C2L C2	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2	style of writing in she language supper them with basic up meet the needs	port. The goal useful phrases	of the countries needed for	Z urse is to gor everyday  Z students	to communicate 3 different type 2 give the student y communication
AE0B04C0 Carrier The course is aimed toward first hand information about during their stay in the Czec A0B04C2Z Carrier course is aimed at fore A0B04C2L Carrier course is aimed at fore The course is aimed at fore	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to	style of writing in she language supper them with basic up meet the needs	port. The goal useful phrases	of the countries needed for	to be able cticing via  Z urse is to gor everydage  Z students  Z students.	to communicate 3 different type  2 give the student y communication 2
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec A0B04C2Z C: The course is aimed at fore A0B04C2L C: The course is aimed at fore A0B04CIN	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2	style of writing in she language supper them with basic up meet the needs	port. The goal useful phrases	of the coon needed for university	to be able to be able to be able to be able to to be able to to go are everyday attudents Z students. Z	to communicate 3 different type 2 give the student y communication 2
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec A0B04C2Z C: The course is aimed at fore A0B04C2L C: The course is aimed at fore A0B04CIN B0B16ET1 Et Aim of this subject is to provi	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills and zech language and	style of writing in sh language supplement with basic up meet the needs of meet the needs or meet the	port. The goal useful phrases of technical soft technical solving vario	of the counced for the counced	to be able cticing via   Z  urse is to go reverydar  Z  students  Z  students.  Z  KZ  KZ  nns of hum	to communicate 3 different type  2 give the student y communication  2  2  4
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec  A0B04C2Z C: The course is aimed at fore  A0B04C2L C: The course is aimed at fore  A0B04C1N  B0B16ET1 Et  Aim of this subject are disc	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills to zech language through the students studying in Czech, it further develops their language knowledge and skills to thic 1  ride the students an orientation not only in general problems of ethics but above all to offectussions in which students can react to lectures but also to actual questions coming with	style of writing in sh language supplement with basic up meet the needs of meet the needs or meet the	port. The goal useful phrases of technical soft technical solving vario	of the counced for the counced	to be able to to be able to to go are everyday and to be able to b	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec  A0B04C2Z C: The course is aimed at fore A0B04C2L C: The course is aimed at fore A0B04C1N  B0B16ET1 Et Aim of this subject is to provparts of the subject are disc B0B16FIL Pt	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills and zech language and	style of writing in sh language support them with basic up meet the needs to meet the needs or meet th	port. The goal useful phrases of technical sof technical solving variour the communications of the communication of the communications of the communication	of the counced for the counced	to be able to to be able to to go are everyday.  Z Students Z Students. Z KZ ns of hum rs.	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec  A0B04C2Z C: The course is aimed at fore  A0B04C2L C: The course is aimed at fore  A0B04C1N  B0B16ET1 Et Aim of this subject is to proparts of the subject are disc  B0B16FIL Pt We deal with the most importance in aimed toward.	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills to	style of writing in sh language support them with basic up meet the needs to meet the needs or meet th	port. The goal useful phrases of technical sof technical solving variour the communications of the communication of the communications of the communication	of the counced for the counced	to be able to be able cticing via   Z  urse is to go reveryday  Z  students  Z  students.  Z  KZ  nns of hum  rs.  Z  KK  nnd connect	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec  A0B04C2Z C: The course is aimed at fore  A0B04C2L C: The course is aimed at fore  A0B04C1N  B0B16ET1 Et Aim of this subject is to provparts of the subject are disc  B0B16FIL Pt We deal with the most imporphilosophical thoughts with  B0B16FI1 Pt	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills to	style of writing in sh language support them with basic upon meet the needs of meet the needs or meet the needs or instructions for news and look for transdisciplinary	port. The goal useful phrases s of technical s of technical r solving vario or the commu	of the counced for the counced	to be able to be able cticing via   Z  urse is to go or everyday  Z  students  Z  students.  Z  KZ  ns of hum  rs.  ZK  nd connect  KZ	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia  2 ction of old
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czec  A0B04C2Z C: The course is aimed at fore A0B04C2L C: The course is aimed at fore A0B04C1N  B0B16ET1 Et Aim of this subject is to provparts of the subject are disc B0B16FIL Pt We deal with the most imporphilosophical thoughts with B0B16FI1 Pt We deal with the most imporphilosophical thoughts with	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills to	style of writing in sh language support them with basic upon meet the needs of meet the needs or meet the needs or instructions for news and look for transdisciplinary	port. The goal useful phrases s of technical s of technical r solving vario or the commu	of the counced for the counced	to be able to be able cticing via   Z  urse is to go or everyday  Z  students  Z  students.  Z  KZ  ns of hum  rs.  ZK  nd connect  KZ	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia  2 ction of old
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czer  A0B04C2Z C: The course is aimed at fore  A0B04C2L C: The course is aimed at fore  A0B04C1N  B0B16ET1 Et Aim of this subject is to provparts of the subject are disc  B0B16FIL Pf We deal with the most imporphilosophical thoughts with  B0B16FI1 Pf We deal with the most imporphilosophical thoughts with	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language and skills to	style of writing in sh language support them with basic upon meet the needs of meet the needs or meet the needs or instructions for news and look for transdisciplinary	port. The goal useful phrases s of technical s of technical r solving vario or the commu	of the counced for the counced	to be able to be able cticing via   Z  urse is to go or everyday  Z  students  Z  students.  Z  KZ  ns of hum  rs.  ZK  nd connect  KZ	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia  2 ction of old
AE0B04C0 The course is aimed toward first hand information about during their stay in the Czect A0B04C2Z The course is aimed at fore A0B04C2L The course is aimed at fore A0B04C1N B0B16ET1 Aim of this subject is to proparts of the subject are disc B0B16FIL We deal with the most imporphilosophical thoughts with B0B16FI1 PH We deal with the most imporphilosophical thoughts with A0B04KF1 Fr	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech langu	style of writing in sh language support them with basic upon meet the needs of meet the needs or meet the needs or instructions for news and look for transdisciplinary	port. The goal useful phrases s of technical s of technical r solving vario or the commu	of the counced for the counced	to be able to be able cticing via   Z  urse is to go or everyday  Z  students  Z  students.  Z  KZ  ns of hum  rs.  ZK  nd connect  KZ  nd connect  KZ  nd connect	to communicate 3 different type  2 give the student y communication  2  2  4 an life. Essentia  2 ction of old  4 ction of old
AE0B04C0 C: The course is aimed toward first hand information about during their stay in the Czect A0B04C2Z C: The course is aimed at fore A0B04C2L C: The course is aimed at fore A0B04C1N B0B16ET1 Et Aim of this subject is to proparts of the subject are disc B0B16FIL Pt We deal with the most imporphilosophical thoughts with B0B16FI1 Pt We deal with the most imporphilosophical thoughts with A0B04KF1 Fr A0B04KF2 Fr A0B04F1 Fr	ter in English in a variety of formats. This will be practiced by examining the structure and t explanatory article, and a research article.  Zech Language 0  Is ERASMUS students - especially beginners. The course is taught on the basis of Englis pronunciation, vocabulary and grammar structure of the Czech language, and also provide the Republic.  Zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech language 2  ign students studying in Czech, it further develops their language knowledge and skills to zech langu	style of writing in sh language support them with basic upon meet the needs of meet the needs or meet the needs or meet the needs or instructions for news and look for transdisciplinary	port. The goal useful phrases s of technical s of technical r solving vario or the commu	of the counced for the counced	to be able to be able cticing via   Z  urse is to go or everyday  Z  students  Z  students.  Z  KZ  ns of hum  rs.  Z  KZ  nd connect  KZ  nd connect  Z	to communicate 3 different type  2 give the student y communication  2  2  4 ann life. Essentia  2 ction of old  4 ction of old

A0B04F3	French Language 3	Z	2
B0B39GRT	Graphical Design	KZ	5
B0B16HTE	overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical de	ZK	a drawing.
B0B16HT1	History of technology and economic  History of science and technology 1	KZ	4
B0B16HI1	History 1	KZ	4
A0B04JAP	Japanese	Z	2
B0B16MPS	Psychology	Z,ZK	4
A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04N1	German language 1	Z	2
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04ON	Professional German	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
The aim of the course	is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers	s units 1-4. Studyir	ng for CAE helps
1	inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba		
-	anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
	. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	-	_
	take CAE at British Council.	.co. it is possible b	at not necessaly
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers	_	_
1	inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba		
-	anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
	. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	-	_
	take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.	les. It is possible b	ut not necessary
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the course	is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers	unit 9 - 12. Studyi	ng for CAE helps
you to improve your la	anguage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.		
A0B04CAE4	Certificate of Advanced English 4	Z	
A0B04CAE4 A0B04FCE1	Certificate of Advanced English 4 FCE 1	Z	2
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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 <b>Ji í Vaší ek</b> 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

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

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, 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.

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: Zaměření: Programátor/architekt webových aplikací

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  Ivo Malý Ivo Malý (Gar.)	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
В0В39КАЈ	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

B6B39PDA	Principles of mobile applications	Z,ZK	6
Student who successful	y passed the course get overview about properties and about limits of single mobile technologies. The course is focused on	specific problems	related to
limitations and new cap	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
on introduction of basic	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.
B6B16ISP	Business Process Management	Z,ZK	5
B0B39KAJ	Client applications in JavaScript	Z,ZK	5

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

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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
B6B32DSV	Distributed Computing Peter Macejko, Lukáš Kencl Peter Macejko Lukáš Kencl (Gar.)	Z,ZK	5	2P + 2L + 4D	Z	V
B6B32ST2	Advanced Networking Technologies Leoš Bohá Zbyn k Kocur 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	Z,ZK	5	2P+2C+3D	L	V
B6B32TKS	Telecommunications Networks Ivan Pravda, Jaromír Hrad Ivan Pravda Jaromír Hrad (Gar.)	Z,ZK	5	2P + 2L + 2D	L	V

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

Onar actor lotico or	the courses of this group of clady Flam: code=Borrim to Name=Compared y cabjects		
B6B32DSV	Distributed Computing	Z,ZK	5
The course is focused of	n technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of appl	ication processes	, programming
interfaces of communication	ation channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms th	at assure causalit	ty, exclusive
access, deadlock detec	tion/avoidance, fault-tolerance, mobile computing, and security.		
B6B32ST2	Advanced Networking Technologies	Z,ZK	5
B6B32SOS	Network Operating Systems	Z,ZK	5
Network operating syste	ms, Linux, Unix. Administration and network tools, managing and administration of documentation. The graduates will be info	ormed about basic	conception and
procedures in operating	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

Note on the group: ~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách

http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

## List of courses of this pass:

Code	Name of the course	Completion	Credits
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 technical	al university stude	nts.
A0B04C2Z	Czech language 2	Z	2
	is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical		1
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers unit		
	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on a language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able		
-	e language in practical situations, for will be able to participate in meetings and discussions, expressing opinions clearly and be able is. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses ta		-
	yers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It	•	•
, ,	for obtaining credit to take CAE at British Council.	•	ĺ
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers unit	s 5-8. Studying for	CAE helps
	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based of		
-	e language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able		-
= = =	s. 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. It for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semeste	-	necessary
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit s		l
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of con		
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		2
	led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europ	pean Language Fi	rame. The
course focuses on	mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	the required skills	needed for
A0B04FCE2	FCE 2	Z	2
The course is air	ed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europ	pean Language Fi	rame. The
course focuses on	mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	the required skills	needed for
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 Comm		l
Reference for Lang		· ·	mework of
	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 to	mework of the goal of
A0B04FCE4	obtaining the required skills needed for B2 CEFR.  FCE4	and is submitted to	mework of the goal of
The course is air	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe	and is submitted to  Z pean Language Fr	mework of the goal of 2 rame. The
The course is air	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europmproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	and is submitted to  Z pean Language Fr	mework of the goal of 2 rame. The
The course is air course focuses on	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe	Z pean Language Fr the required skills	mework of o the goal of 2 rame. The s needed for
The course is air course focuses on A0B04GA	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europmproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	Z pean Language Fr the required skills	mework of the goal of 2 rame. The s needed for 2
The course is air course focuses on A0B04GA	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europeroving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	Z pean Language Fr the required skills Z course is meant r	mework of the goal of 2 rame. The s needed for 2
The course is air course focuses on A0B04GA	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  lister is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The	Z pean Language Fr the required skills Z course is meant r	mework of the goal of 2 rame. The s needed for 2
The course is air course focuses on A0B04GA The aim of this co	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer moreoving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  Itrse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.	Z pean Language Fr the required skills Z course is meant r ice.	mework of o the goal of 2 rame. The s needed for 2 nainly as a
The course is air course focuses on A0B04GA The aim of this co A0B04GN	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  Itrse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.  German Grammar	Z pean Language From the required skills  Z course is meant rice.	mework of the goal of 2 rame. The s needed for 2 nainly as a
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  It is is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.  German Grammar  Japanese  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 pean Language Fi the required skills  Z course is meant r ice.  Z Z	mework of the goal of 2 rame. The needed for 2 mainly as a 2 2 2
The course is air course focuses on  A0B04GA The aim of this co  A0B04GN A0B04JAP A0B04KA The course is des	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of English courses that are intended for the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Courses that are intended for full-time students. The submitted to the goal of obtaining B2 ELF.  Interview of English Cou	Z pean Language Fi the required skills  Z course is meant rice.  Z Z	mework of the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of English courses that are intended for the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Interview of English Conversation 2  Interview of English Conversation 1	Z pean Language Fr the required skills  Z course is meant r ice.  Z Z Ilready know, as w	mework of othe goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of English courses that are intended for the goal of obtaining B2 ELF.  It is is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Japanese  English Conversation 2  In girlsh Conversation 2  In girlsh Conversation 2  In girlsh Conversation 2  In girlsh Conversation 1  In French conversation 1	z pean Language Fr the required skills  Z course is meant r ice.  Z Z Ilready know, as w	mework of the goal
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of English courses that are intended for the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of the Faculty and phonetics - and is submitted to the goal of obtaining B2 ELF.  Interview of English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Interview of English Conversation 2  Interview of English Conversation 1	z pean Language Fi the required skills  Z course is meant rice.  Z Z Ilready know, as w	mework of o the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2 2 2 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN A0B04KN2	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of English courses that are intended for the goal of obtaining B2 ELF.  It is is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Japanese  English Conversation 2  In girlsh Conversation 2  In girlsh Conversation 2  In girlsh Conversation 2  In girlsh Conversation 1  In French conversation 1	z pean Language Fr the required skills  Z course is meant r ice.  Z Z Ilready know, as w	mework of o the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2 2 2 2 2 2 2 2 2 2 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  It is is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.  German Grammar  Japanese  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 new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.  French conversation 1  French conversation 1  German Conversation	z pean Language Fi the required skills  Z course is meant r ice.  Z Z Ilready know, as w	mework of o the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2 2 2 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN A0B04KN2	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Interview of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europe Interview of Interview o	Z pean Language Fi the required skills  Z course is meant rice.  Z Z Ilready know, as w	mework of o the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2 2 2 2 2 2 2 2 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN A0B04KN2 A0B04KR	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europer Improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  It is is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Japanese  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 new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.  French conversation 1  French conversation 1  German Conversation 2  Russian conversation 2	z pean Language Fi the required skills  Z course is meant r ice.  Z Z Ilready know, as w	mework of o the goal of 2 rame. The seneeded for 2 mainly as a 2 2 2 ell as learn 2 2 2 2 2 2 2 2 2 2 2
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN A0B04KN2 A0B04KR A0B04KR	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europerproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  In the supplement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practical German Grammar  Japanese  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 new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.  French conversation 1  French conversation 1  German Conversation 2  Russian conversation 2  Russian conversation 2	z pean Language Fi the required skills  Z course is meant rice.  Z Z Ilready know, as w	mework of othe goal of the goa
The course is air course focuses on A0B04GA The aim of this co A0B04GN A0B04JAP A0B04KA The course is des A0B04KF1 A0B04KF2 A0B04KN A0B04KN2 A0B04KR2 A0B04KR2 A0B04KS1	obtaining the required skills needed for B2 CEFR.  FCE4  led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europerproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.  In the supplement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional practic German Grammar  Japanese  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 new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.  French conversation 1  French conversation 1  German Conversation 2  Russian conversation 2  Russian conversation 2  Spanish conversation 1	Z pean Language FI the required skills  Z course is meant rice.  Z Z Ilready know, as w	mework of othe goal of the goa

A0B04N3	German language 3	Z	2
A0B04N3	Technical English Course	Z	2
	ned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude		_
	ect 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.		
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	<u></u> Z	2
	ie subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the		1
•	ect 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.		
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
AE0B04C0	Czech Language 0	Z	2
The course is aime	towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the	course is to give	the students
first hand informatio	n about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases neede during their stay in the Czech Republic.	ed for everyday co	mmunicatior
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 El	nglish.	1
B0B04A22	English Language A2-2	Z	0
The course is ope	n to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowled	lge of the English	language.
B0B04B11	English Language B1-1	Z	0
Course objective: B	oadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	ansion; understan	ding spoker
	English.		
B0B04B12	English Language B1-2	Z	0
Course objective: B	oadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	ansion; understan	ding spoker
DoboADAIA	English.	1/7	
B0B04B1K	English language B1 - classified assessment	KZ	0
DODO 4DO4	verifying of the student's skills of B1 level		
B0B04B21	English Language B2-1	Z	3
	ned as a full-year, two semester preparation course for the university's compulsory B2-level English Examination (Anglický jazyk B2 - sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark),		
	ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria		
	/ International Study.	g	
B0B04B22	English Language B2-2	Z	3
	ned as a full-year, two semester preparation course for the university's compulsory B2-level English Examination (Anglický jazyk B2 -		-
	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark),		
academic and tech	ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria	te level of English	for Erasmus
	/ International Study.		
B0B04B2Z	English language B2 - exam	Z,ZK	0
,	kam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students at the Czech Technical University.	•	
	dents at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully co		orogramme.
-	miles the "seeding of an exemination and setting and the cools A. D. C. D. and E. "(CERR Rest III) Acticle CV IIV According to the Community		
In addition, this re	quires the "passing of an examination evaluated on the scale A, B, C, D, or E" (SERR Part III, Article 6). II) According to the Comm	on European Fra	
In addition, this re Reference for Lang	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve	on European Fra d the B2 (Upper-Ir	ntermediate
In addition, this re Reference for Lang level is one who "	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field	on European Fra d the B2 (Upper-Ir of specialisation. (	ntermediate Can interact
In addition, this re Reference for Lang level is one who " with a degree of fl	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve	on European Fra d the B2 (Upper-Ir of specialisation. ( clear, detailed tex	ntermediate Can interact t on a wide
In addition, this re Reference for Lang level is one who " with a degree of fl range of subjects	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field being and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce	on European Fra d the B2 (Upper-In of specialisation. ( clear, detailed tex essfully passed an	ntermediate Can interact t on a wide n approved
In addition, this re Reference for Lang level is one who " with a degree of fl range of subjects	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field plancy and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options." III) Students who have successing	non European Fra d the B2 (Upper-In of specialisation. O clear, detailed tex essfully passed ar val, students are	ntermediate Can interact t on a wide n approved
In addition, this re Reference for Lang level is one who " with a degree of fl range of subjects international exam	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field or pency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options." III) Students who have succes within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approfrom both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.	non European Fra d the B2 (Upper-Ir of specialisation. ( clear, detailed tex essfully passed ar val, students are cvut.cz/	ntermediate Can interact t on a wide n approved then exempt
In addition, this re Reference for Lang level is one who " with a degree of fl range of subjects international exam B0B16ET1 Aim of this subject in	lages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieve can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of pency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options." III) Students who have successible within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approach from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.  Ethic 1  s to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ	ton European Fra d the B2 (Upper-Ir of specialisation. Colear, detailed tex essfully passed ar val, students are cvut.cz/  KZ ations of human li	ntermediate Can interact t on a wide n approved then exemp  4 fe. Essentia
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20	Datahasa Sustama	7 71/	
BS   designed as a basic database	Database Systems e course mainly aimed at the student ability to design a relational data model and to use the SC	Z,ZK  SL language for data definition a	6 is well as fo
-	ate degree of transaction isolation. Students will also get acquainted with the most commonly u		
- :: :	eir management. They will verify their knowledge during the elaboration of a continuously subn	- ·	,
JV	Programming in Java	Z,ZK	6
	ns and programming from the first semester and introduces students to the Java environment.		ject conce
nguage. The topics of the cours	se includes exceptions, event handling, and building a graphical interface. Basic library method	s, working with files and using g	eneric type
	dels of multithreaded applications and their implementation. Practical exercises of practical skills		
	which will be submitted continuously through the source code version control system. The sem		oints for th
	ncy of the code, as well as points that take into account the quality of the source codes, their re		
RT	Graphical Design	KZ	drawing
	ical design and typography. It includes also a practical training in creating graphical design of el		1
AJ	Client applications in JavaScript	Z,ZK	5
M1   ves students knowledge neces	Multimedia 1 ssary to produce and edit multimedia content using variety of tools and creative methods. Lectur	Z,ZK	6 of standard
<del>-</del>	ommonly used in commercial and alternative creation processes. The presented topics include	•	
• • • • • • • • • • • • • • • • • • • •	mats and compression methods, technical equipment to record video, lighting devices and their c	•	
of archivation and distril	ibution of multimedia content. The part of the course is also a project with use of presented tecl	hnologies and methods.	
SR SR	Computer graphics programming	Z,ZK	6
\G	Linear Algebra	Z,ZK	7
AA	Mathematics Analysis	Z,ZK	5
an introduction to differential	and integral calculus. It covers basic properties of functions, limits of functions, derivative and i		polynomia
	and definite/indefinite integral with its applications, sequences and series.		
ST	Statistics and Probability	Z,ZK	4
will be introduced to the theo	ory of probability and mathematical statistics, namely to the basic computing methods and their	applications in practice. The co	rse cover
	ical statistics. The first part is focused on classical probability, including conditional probability. T	•	•
•	of the most important types of discrete and continuous distributions, numerical characteristics of	•	
T	c knowledge is then used in the description of statistical methods for estimating distribution par		r
M	Introduction to Discrete Mathematics	Z,ZK	5
I	are required at the beginning of this course. Using illustrative examples we build sufficient under	erstanding of combinatorics, set	ana grapn
I	theory. Then we preced to formal construction of propositional calculus		
d knowleges of mathematics a	theory. Then we proceed to formal construction of propositional calculus.	V7	2
d knowleges of mathematics a	Presentation	KZ	3
d knowleges of mathematics a	Presentation Corporate finance	Z,ZK	5
RE P Is Is Is course is to familiarise studet" existing types of systems amental part of the course is the	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Do and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MI he introduction to key ideas of an information system selection, evaluation of information system.	Z,ZK  KZ  uring the course, students are in RP and other types of information to benefits, ways of information to be seen the state of	5 4 troduced to n systems systems
RE P Since the course is to familiarise studet" existing types of systems at amental part of the course is the cou	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Do and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MI he introduction to key ideas of an information system selection, evaluation of information system plementation based on the project management principles. The emphasis is on the initial custor existing information system or to develop a new one from scratch. These factors determine the information system.	Z,ZK  KZ  uring the course, students are in RP and other types of information mer analysis, customer insight a information system implementat	4 troduced to on systems systems and ability to ion success
RE P Since the course is to familiarise studet existing types of systems a amental part of the course is the course is the course is the course is the course in the course information of the course information.	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Duand their usage in specific industry segments. Students are familiarised with the CRM, ERP, Mi he introduction to key ideas of an information system selection, evaluation of information system plementation based on the project management principles. The emphasis is on the initial custor existing information system or to develop a new one from scratch. These factors determine the insystems security, operation, support, maintenance, legislation impacts, and government information.	Z,ZK  KZ  uring the course, students are in RP and other types of information mer analysis, customer insight a information system implementation systems topics are discussed.	4 troduced to n systems systems and ability to ion successesed.
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RE P IS Is insic course is to familiarise studet" existing types of systems a amental part of the course is the on and information system imper it is better to implement any end of the course information is P PR	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Du and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MI he introduction to key ideas of an information system selection, evaluation of information system plementation based on the project management principles. The emphasis is on the initial custor existing information system or to develop a new one from scratch. These factors determine the i systems security, operation, support, maintenance, legislation impacts, and government inform  Business Process Management  Decision Making Methods	Z,ZK  KZ  uring the course, students are in RP and other types of information mer analysis, customer insight a information system implementat nation systems topics are discussional Z,ZK  Z,ZK	5 4 troduced to systems systems and ability to successed.
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RE P IS In its course is to familiarise studet" existing types of systems a amental part of the course is the nand information system imper it is better to implement any end of the course information is P PR	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Durand their usage in specific industry segments. Students are familiarised with the CRM, ERP, MI he introduction to key ideas of an information system selection, evaluation of information system plementation based on the project management principles. The emphasis is on the initial custor existing information system or to develop a new one from scratch. These factors determine the insystems security, operation, support, maintenance, legislation impacts, and government inform Business Process Management  Decision Making Methods  Law for IT	Z,ZK  KZ  uring the course, students are in RP and other types of information mer analysis, customer insight a information system implementat nation systems topics are discussory, Z,ZK  Z,ZK  Z,ZK  Z,ZK	5 4 troduced to n systems systems and ability to ion successed. 5 4
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d knowleges of mathematics and knowleges of mathematics and RE P P P P P P P P P P P P P P P P P P	Presentation  Corporate finance  Information Systems  dents with the information systems topic and information systems implementation principles. Do and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MI he introduction to key ideas of an information system selection, evaluation of information system plementation based on the project management principles. The emphasis is on the initial custor existing information system or to develop a new one from scratch. These factors determine the is systems security, operation, support, maintenance, legislation impacts, and government inform Business Process Management  Decision Making Methods  Law for IT  Marketing Research  Business Economics	Z,ZK  KZ  uring the course, students are in RP and other types of information mer analysis, customer insight a information system implementatination systems topics are discussed in Z,ZK	5 4 troduced to systems systems ind ability ion successed.  5 5 4 5 5 5 5 5 5 5 5 5 5 5 6 5 6 5 6
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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 and	•	-
department/departr	nents. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution of the web pages of the selected department. Within this course the project is also defended.	tne projects can	be found on
B6B36RSP	Management of Software Projects	Z,ZK	6
B6B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
	the topic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledge on		_
	graphic notation - UML.	3	, , ,
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
	uces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning,		_
	al experiences from team cooperation (information sharing, communication, etc.). All presented topics are practiced and extended in	-	-
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 to		al structure
and function of the	processor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor per	formance and the	eir limits will
be introduced. Th	e computer architecture description, memories and their categorization in terms of functional principles and application use will be ba	sed on this knowl	edge. The
•	re focused on getting acquainted with operating systems, multitasking, inter-process communication and synchronization, resource may	•	
	I deal with the computer networks - first in general (OSI model) and then more specifically with an introduction to TCP / IP protocols. For		
subsystem will be d	escribed in more detail, including disk partitioning, file systems, and access rights. Finally the basics of electronics and optoelectronic	s, typical problem	s motivating
DODOODD A	students to further deepen their knowledge in this area through self-study will be introduced.	7.71	
B6B39PDA	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	Z,ZK	6
	cessiting passed the course get overview about properties and about limits of single mobile technologies. The course is locused on second about limits of single 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 gain		
B6B39TDM	3D Modeling	KZ	5
B6B39TUR	User Interface Testing	Z,ZK	5
	the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in t	•	_
	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.		
B6B39ZMT	Foundations of Multimedia Production		
DODOGZIVII	r dandations of Mattimedia i Todaction	KZ	3
	iarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, video		-
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The course famili principles of grap section of the cours	iarizes students with the basic principles of acquisition and processing of multimedia content, with a focus on image processing, video hic design and its implementation in a web environment. The course is organized within the block teaching when, within four days, students will acquire the practical principles in the acquisition and processing	o and audio, as w udents gradually p g of multimedia c	rell as the pass each ontent while
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For updated information see <a href="http://bilakniha.cvut.cz/en/f3.html">http://bilakniha.cvut.cz/en/f3.html</a> Generated: day 2024-05-19, time 04:25.

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Physical education