Study plan

Name of study plan: Software Engineering and Technology

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Common courses

Garantor of the study branch: Program of study: Welcome page Type of study: unknown full-time

Required credits: 170
Elective courses credits: 10
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 150

The role of the block: P

Code of the group: BSITBAP

Name of the group: Bachelor Project

Requirement credits in the group: In this group you have to gain 20 credits Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 20 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BBAP20	Bachelor thesis Roman mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Р

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

BBAP20 Bachelor thesis Z 20

Code of the group: BSITBBE

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

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Р
BEZZ	Basic Health and Occupational Safety Regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BSITBBE Name=Safety of the bachelor's studies

BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0				
The purpose of the safe	y course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from oper	ation of it. This inti	oductory course				
contains fundamentals	contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.						
BEZZ	Basic Health and Occupational Safety Regulations	Z	0				
		` . 					

The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.

Code of the group: 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 grou	γ.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B0B36DBS	Database Systems Martin imná , Václav Kratochvíl Martin imná Martin imná (Gar.)	Z,ZK	6	2P+2C+4D	L	Р
B6B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš, Daria Pavlova Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2C+2D	L	Р
B6B04PRE	Presentation Petra Juna Jennings, Jitka Pinková Jitka Pinková Petra Juna Jennings (Gar.)	KZ	3	1P+1C	Z	Р
B0B36PJV	Programming in Java Ji í Vok ínek, Martin Mudroch, Ladislav Serédi Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7D	L	Р
B6B36SMP	Analysis and Modeling of Software Requirements Martin Komárek Martin Komárek (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36TS1	Software Testing Miroslav Bureš, Avetis Mkrtchian Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
B6B36ZAL	Introduction to Programming Ji í Vok ínek	Z,ZK	5	2P+2C+2D	Z	Р
B6B01ZDM	Introduction to Discrete Mathematics Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
B6B39ZMT	Foundations of Multimedia Production Roman Berka, František Rund Roman Berka Roman Berka (Gar.)	KZ	3	4P+4L+2D	Z	Р
B6B38ZPS	Basics of Computer Systems Ji í Novák Ji í Novák Ji í Novák (Gar.)	Z,ZK	6	4P+2L+2D	Z	Р
B6B36ZPR	Introduction to Project Management Pavel Náplava	KZ	3	4P+4C+2D	Z	Р
B6B39ZWA	Foundations of Web Applications Martin Klíma, Martin Mudra Martin Klíma Martin Klíma (Gar.)	Z,ZK	5	2P+2C+3D	Z	Р

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

B0B36DBS	Database Systems	Z,ZK	6
The course is designed	as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL langua	ge for data definiti	on as well as for
data querying and to ch	noose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexin	g techniques, dat	abase system
architecture and their m	nanagement. They will verify their knowledge during the elaboration of a continuously submitted seminar task.		ŀ

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.

B6	B36SMP	Analysis and Modeling of Software Requirements	Z,ZK	6
Thi	is course covers the	opic of requirements engineering. Their gathering, analysis, documentation, management, Students also will gain knowledg	e on using the mo	st widely spread
dra	phic 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 a brief formal construction of predicate calculus.

B6B39ZMT | Foundations of Multimedia Production | KZ | 3
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

 Z,Z_{l}

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, Jan Drchal Karel Richta Karel Richta (Gar.)	Z,ZK	6	2P+3C+3D	L	Р
B6B36EAR	Enterprise Architectures Petr Kemen, Petr Aubrecht Petr Kemen Petr Kemen (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 Ivan Pravda Tomáš Van k (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	Р
B6B01MAA	Mathematics Analysis Natalie Žukovec, Karel Pospíšil Natalie Žukovec Natalie Žukovec (Gar.)	Z,ZK	5	2P+2S+2D	Z	Р
B6B36NSS	Design of Software Systems Ji í Šebek Ji í Šebek Ji í Šebek (Gar.)	Z,ZK	5	2P+2C+2D	L	Р
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	Z,ZK	4	2P+2S+1D	L	Р
B6B16PIT	Law for IT Martin Dobiáš, Michal Briaský Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	4	3P+1S+1D	Z	Р
B6B36PJC	Programming in C/C++ Radek Havlí ek, Ingrid Nagyová, Karel Richta Karel Richta Karel Richta (Gar.)	KZ	4	2P+2C+2D	Z	Р
B6B36RSP	Management of Software Projects Miroslav Bureš	Z,ZK	6	3P+2C+3D	L	Р
B6B16ZPD	Business Economics Martin Dobiáš, Ji í Vaší ek, Martin Horák, Blanka Ku erková Martin Dobiáš Martin Dobiáš (Gar.)	Z,ZK	5	2P+2S+2D	Z	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	urse, students ar	e introduced to				
"on the market" existing	types of systems and their usage in specific industry segments. Students are familiarised with the CRM, ERP, MRP and othe	er types of inform	ation systems.				
The fundamental part of	The fundamental part of the course is the introduction to key ideas of an information system selection, evaluation of information system benefits, ways of information systems						
implementation and information system implementation based on the project management principles. The emphasis is on the initial customer analysis, customer insight and ability to							
decide whether it is bet	er to implement any existing information system or to develop a new one from scratch. These factors determine the information	system impleme	ntation success.				
At the end of the course	e information systems security, operation, support, maintenance, legislation impacts, and government information systems top	oics are discusse	d.				
B6B32KAB	Cryptography and Information Security	Z,ZK	5				
The Information Securit	y course provides a complete source of information on the field of security of information systems and information technologies	s. The most of info	ormation in today				
society is created, trans	sferred, stored in electronic form so information security is very important part of it. Technical background for information secu	rity is provided by	/ cryptology.				
B6B01MAA	Mathematics Analysis	Z,ZK	5				
This course is an introd	uction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applicati	ons (graphing, Ta	aylor polynomial)				
and definite/indefinite in	ntegral with its applications, sequences and series.						
B6B36NSS	Design of Software Systems	Z,ZK	5				
B6B36OMO	Object-oriented design and Modeling	Z,ZK	6				
B6B32PSI	Computer Networks	Z,ZK	5				
B6B01PST	Statistics and Probability	Z,ZK	4				
The students will be int	The students will be introduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications in practice. The course covers						
the basic parts of proba	the basic parts of probability and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part deals with the theory of random						

variables and their distributions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random variables, their independence, sums and transformations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and testing hypotheses.

B6B16PIT Law for IT

B6B36PJC Programming in C/C++

KZ 4

 B6B16PIT
 Law for IT
 Z,ZK
 4

 B6B36PJC
 Programming in C/C++
 KZ
 4

 B6B36RSP
 Management of Software Projects
 Z,ZK
 6

 B6B16ZPD
 Business Economics
 Z,ZK
 5

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

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

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

Credits in the group: 6 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B6B36PRO	Semestral Project Ji í Vok ínek, Ji í Šebek, Ivan Jelínek, Martin Tomášek Ji í Vok ínek Ji í Vok ínek (Gar.)	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	
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	
department/department	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	
the web pages of the se	elected department. Within this course the project is also defended.			

Code of the group: BSITECTSZAJ Name of the group: Exam in English Requirement credits in the group:

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B0B04B1K	English language B1 - classified assessment Petra Juna Jennings, Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková Petra Juna Jennings Petra Juna Jennings (Gar.)	KZ	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Petra Juna Jennings, Markéta Havlí ková, Michael Ynsua, Dana Saláková Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р

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

	<u> </u>	<u> </u>		
B0B04B1K	English language B1 - classified assessment		KZ	0
varifying of the student	's skills of R1 lovel			

B0B04B2Z English language B2 - exam

Z,ZK

0

I) The B2 English Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Study and Examination Rules and Regulations for Students at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully complete the study programme. In addition, this requires the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common European Framework of Reference for Languages (CEFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2 (Upper-Intermediate) level is one who can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an approved international exam within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering Upon approval, students are then exempt from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 20

The role of the block: PV

Code of the group: BSITMPV

Name of the group: Compulsory subjects

Requirement credits in the group: In this group you have to gain at least 20 credits (at most 78)

Requirement courses in the group: In this group you have to complete at least 4 courses

Credits in the group: 20 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B6B32DSV	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	5	2P + 2L + 4D	Z	PV
B6B16FIP	Corporate finance Ji í Vaší ek, Old ich Starý, Josef ernohous Ji í Vaší ek Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+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+8C	Z	PV
B6B37MM2	Multimedia 2 František Rund, Jan Bedná, Miloš Klíma Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L+6C	L	PV
B6B32ST2	Advanced Networking Technologies Leoš Bohá Leoš Bohá Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	PV
B6B39PDA	Principles of mobile applications	Z,ZK	6	2P+2C	L	PV
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+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 Jan Kubr	Z,ZK	5	2P+2C+3D	L	PV
B6B32TKS	Telecommunications Networks Ivan Pravda	Z,ZK	5	2P + 2L + 2D	L	PV
B6B39TUR	User Interface Testing	Z,ZK	5	2P+2S+2D	Z	PV
B0B39KAJ	Client applications in JavaScript Ond ej Žára Ond ej Žára Ond ej Žára (Gar.)	Z,ZK	5	2P+2C	L	PV
B6B16ZMI	Marketing Research Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2C	Z	PV
B6B39TDM	3D Modeling David Sedlá ek David Sedlá ek (Gar.)	KZ	5	0P+4C+6D	Z	PV

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

Bob32D5V	Z,ZN	5
The course is focused on technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of ap	plication processes	s, programming
interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms	that assure causali	ty, exclusive
access, deadlock detection/avoidance, fault-tolerance, mobile computing, and security.		

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, metho	ds and approaches commonly used in commercial and alternative creation processes. The presented topics include production	n process of multime	dia 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 di	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 succes	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	apabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile applica	ation 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 operation	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	cs 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

	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their					
Code	members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A0B04GA	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KA	English Conversation 2 Petra Juna Jennings Petra Juna 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 Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	Z	V
B0B04B12	English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	L	V
B0B04B21	English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z	V
B0B04B22	English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z,L	V
A0B04OA	Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
AE0B04C0	Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04C2Z	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z	V
A0B04C2L	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	L	V
A0B04CIN	Petra Juna Jennings Petra Juna 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 Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F1	French language 1 Petra Juna Jennings (Gar.) Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F2	French language 2 Petra Juna Jennings (Gar.) Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04F3	French Language 3 Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B39GRT	Graphical Design Lucie Svobodová Lucie Svobodová (Gar.)	KZ	5	2P+2S	Z,L	V
B0B16HTE	History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)	KZ	4	2P+2S	Z	V
A0B04JAP	Japanese Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B16MPS	Psychology Jan Fiala Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	V
A0B04GN	German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN	German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN2	German conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N1	German language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N2	German language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N3	German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04ON	Professional German Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE1	Certificate of Advanced English CAE 1 Petra Juna Jennings Pavla Péterová (Gar.)	Z	2	2C	Z,L	V
A0B04CAE2	Certificate of Advanced English CAE 2 Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE3	Certificate of Advanced English CAE 3 Petra Juna Jennings, Pavla Péterová Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE4	Certificate of Advanced English 4 Pavla Péterová	Z		2C	Z,L	V
A0B04FCE1	FCE 1 Petra Juna Jennings	Z	2	2C	*	V
A0B04FCE2	FCE 2 Petra Juna Jennings	Z	2	2C	*	V
A0B04FCE4	FCE4 Dana Saláková	Z	2	2C	Z,L	V
A0B04FCE3	FCE 3 Petra Juna Jennings	Z	2	2C	Z,L	V
A0B04PZP	Preparation for stay in Germany Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
B0B16MPL	Psychology for managers Jan Fiala Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	V
A0B04RET	Rhetoric Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR	Russian conversation Dana Saláková	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2 Dana Saláková	Z	2	2C	*	V
A0B04R1	Russian language 1 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R2	Russian language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R3	Russian language 3 Jitka Pinková	Z	2	2C	*	V
A0B04R4	Russian language 3 Dana Saláková	Z	2	2C	*	V
A0B04KS1	Spanish conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V

				1		
A0B04KS2	Spanish conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S1	Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S2	Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S3	Spanish language 3 Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04CA	Technical English for Pre-Intermediate	Z	2	2C	L	V
TVV	Physical education	Z	0	0+2	Z,L	V
A003TV	Physical Education Ji i Drnek	Z	2	0+2	L,Z	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V
supplement for students when AOB04KA Error in the course is designed for shew words and phrases, to BOB04A21 Error in the course is open to stude BOB04A22 Error in the course is open to stude BOB04B11 Error in the course is open to stude BOB04B11 Error in the course is open to stude BOB04B11 Error in the course is open to stude BOB04B11 Error in the AOB04B11 Error in the	extend and complement grammatical patterns covered in other English courses that are on have not yet passed the B2 examination and are interested in further study and additinglish Conversation 2 students who want to develop their communication skills. Students will be given the opportunity of topics and themes. This course is not designed for beginninglish Language A2-1 with who are beginners in their second language. Course objective: Achieving competer and such are beginners in their second foreign language. The course objective is to develop the basic knowledge of general English; mastering basic specialised language; focusing the basic knowledge of general English; mastering basic specialised language; focusing the basic knowledge of general English; mastering basic specialised language; focusing	ortunity to use thers. nce in basic Englelop and sustain	ne vocabular ish. their basic k	ry they alread	Z dy know, as Z Z f the English	2 well as learn 0 language.
English.	polich Languago R1 2		and vocab			0
English. B0B04B12 Er Course objective: Broadenir English. B0B04B21 Er This course is designed as a	nglish Language B1-2 ng the basic knowledge of general English; mastering basic specialised language; focusion of the basic knowledge B2-1 a full-year, two semester preparation course for the universitys compulsory B2-level Engliping students reach a level required to pass the B2-level English Examination (or impressions)	glish Examination	s and vocab	ulary expans	Z sion; understa Z ouška - B0B0	3 04B2Z*). While
English. BOB04B12 Er Course objective: Broadenir English. BOB04B21 Er This course is designed as a che course is focused on he academic and technical voc International Study. BOB04B22 Er This course is designed as a che course is focused on he academic and technical voc academic and technical voc	ng the basic knowledge of general English; mastering basic specialised language; focusing the basic knowledge of general English; mastering basic specialised language; focusing the basic knowledge B2-1 a full-year, two semester preparation course for the universitys compulsory B2-level English.	glish Examination ove their English also used for dete dlish Examination ove their English	s and vocab (Anglický ja for a higher rmining an a (Anglický ja for a higher	ulary expans azyk B2 - zko mark), it als appropriate k zyk B2 - zko mark), it als	Z Z Duška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis	3 04B2Z*). While ore on the sh for Erasmus 3 4B2Z *). While ore on the
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English. BOB04B12 Errocurse objective: Broadening English. BOB04B21 Errocurse is designed as a che course is focused on he academic and technical vocuments in the course is focused on he academic and technical vocuments in the course is focused on he academic and technical vocuments in the course is focused on he academic and technical vocuments in the course is designed for academic and technical vocuments is designed for academic and study. AOB04OA Technical subject matter of texts: an abstract, a short AE0B04C0 Came course is aimed toward during their stay in the Czerverse is designed for the course is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is designed for the course is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is designed for stay and the course is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is aimed toward during their stay in the Czerverse is a constant and the course is	Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language Inglish I	glish Examination ove their English also used for dete glish Examination ove their English also used for dete t. Its main objectiv d style of writing i	s and vocable (Anglický ja for a higher rmining an a for a higher rmining an a re is to prepan formal Engapore. The go	ulary expans azyk B2 - zko mark), it als appropriate ke zyk B2 - zko mark), it als appropriate ke appropriate ke appropriate ke are students glish and pra	Z Duška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z to be able to cticing via 3 Z urse is to giv	3 94B2Z*). While ore on the sh for Erasmus 2 communicate different types 2 e the students communication
English. 30B04B12 Errocurse objective: Broadening inglish. 30B04B21 Errocurse is designed as a conse is focused on he course is designed for subout technical subject matter for texts: an abstract, a short AE0B04C0 Context is a modern to the course is aimed toward for the course	Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1	glish Examination ove their English also used for dete glish Examination ove their English also used for dete t. Its main objectiv d style of writing i glish language sup them with basic	s and vocabor (Anglický ja for a higher rmining an a ve is to prepar n formal Enguseful phras	ulary expans azyk B2 - zko mark), it als appropriate k zyk B2 - zko mark), it als appropriate k are students glish and pra pal of the cor ses needed for	Z Juška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z urse is to giv or everyday of	3 3 4B2Z*). While ore on the sh for Erasmu 3 4B2Z *). While ore on the sh for Erasmu 2 communicate different type 2 e the student
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inglish. BOB04B12 Error course objective: Broadenir inglish. BOB04B21 Error course is designed as an experiment of the course is focused on he cademic and technical voc International Study. BOB04B22 Error course is designed as an experiment of the course is focused on he cademic and technical voc International Study. BOB04B22 Error course is designed as an experiment of the course is designed on he cademic and technical voc International Study. BOB04CO Technical subject matter of texts: an abstract, a short of texts: an abstract, a short of the course is aimed toward uring their stay in the Czect of the course is aimed at fore to the course is aimed at fore the course is aimed	Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1	glish Examination ove their English also used for dete llish Examination ove their English also used for dete t. Its main objectiv d style of writing i lish language sup e them with basic	s and vocable (Anglický ja for a higher rmining an a left) (Anglický ja for a higher rmining an a left) (Anglický ja for a higher rmining an a left) (Anglický ja for a higher rmining an a left) (Anglický ja higher) (Ang	ulary expans azyk B2 - zko mark), it als appropriate k zyk B2 - zko mark), it als appropriate k are students glish and pra pal of the cor ses needed for al university	Z puška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z urse is to giv or everyday of students	3 AB2Z*). While ore on the sh for Erasmu 2 communicate different type 2 e the student communication
inglish. 30B04B12 Errourse objective: Broadenir inglish. 30B04B21 Errors inglish. 30B04B21 Errors in in it is course is designed as an experience of the cademic and technical voc international Study. 30B04B22 Errors in it is course is designed as an experience and technical voc international Study. 30B04B22 Errors in it is course is designed as an experience and technical voc international Study. 30B04CO Text in it is course is designed for at it is course is designed for at it is course is a simed toward in texts: an abstract, a short in it is a short in	Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-1 Ingling students reach a level required to pass the B2-level English Examination (or improabularly and grammar expected of students at the university level. *NOTE: This exam is a singlish Language B2-2 Inglish Language B2-2 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Language B2-2 Inglish Language B2-1 Inglish Examination (or improabularly and grammar expected of students at the university level. *NOTE: This exam is a characteristic and the universit	glish Examination ove their English also used for dete glish Examination ove their English also used for dete to the	s and vocable (Anglický ja for a higher rmining an a (Anglický ja for a higher rmining an a ve is to prepa poport. The go useful phras Is of technic or solving va	ulary expans azyk B2 - zko mark), it als appropriate k zyk B2 - zko mark), it als appropriate k appropriate k are students allish and pra bal of the core al university al university rious situation	Z puška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z uška - B0B0 o focuses mevel of Englis Z to be able to cticing via 3 Z urse is to giv or everyday of students Z students Z kZ ons of human	3 04B2Z*). While one on the sh for Erasmu 3 4B2Z *). While one on the sh for Erasmu 2 communicate different type 2 e the student sommunication 2 2 4
English. 30B04B12	inglish Language B2-1 a full-year, two semester preparation course for the universitys compulsory B2-level Engliping students reach a level required to pass the B2-level English Examination (or imprabulary and grammar expected of students at the university level. *NOTE: This exam is a singlish Language B2-2 a full-year, two semester preparation course for the university level. *NOTE: This exam is a singlish Language B2-2 a full-year, two semester preparation course for the universitys compulsory B2-level Engliping students reach a level required to pass the B2-level English Examination (or imprabulary and grammar expected of students at the university level. *NOTE: This exam is a chnical English Course students who have successfully passed the B2 Exam or have met the exam requirement ter in English in a variety of formats. This will be practiced by examining the structure and explanatory article, and a research article. Each Language 0 s ERASMUS students - especially beginners. The course is taught on the basis of Engloronunciation, vocabulary and grammar structure of the Czech language, and also provides Republic. Each language 2 ign students studying in Czech, it further develops their language knowledge and skills each language 2 ign students studying in Czech, it further develops their language knowledge and skills each language 2 ign students studying in Czech, it further develops their language knowledge and skills each language 2 ign students studying in Czech, it further develops their language knowledge and skills in the students an orientation not only in general problems of ethics but above all to of ussions in which students can react to lectures but also to actual questions coming with hilosophy rtant persons, schools and ideas of ancient philosophy. We are concerned especially of	glish Examination ove their English also used for dete glish Examination ove their English also used for dete to the their English also used for dete to the their English also used for dete to meet the need to meet the need for instructions for the news and look	s and vocable (Anglický ja for a higher rmining an a (Anglický ja for a higher rmining an a ve is to prepa n formal Eng poort. The go useful phras Is of technic or solving va for the comr	ulary expans azyk B2 - zko mark), it als appropriate ke zyk B2 - zko mark), it als appropriate ke are students glish and pra al university al university rious situation munal answe	Z puška - B0BC o focuses mevel of Englis Z uška - B0BC o focuses mevel of Englis Z uška - B0BO o focuses mevel of Englis Z to be able to cticing via 3 Z urse is to giv or everyday or everyd	anding spokel 3 04B2Z*). While ore on the sh for Erasmu 3 4B2Z *). While ore on the sh for Erasmu 2 communicate different type 2 e the student communication 2 4 1 life. Essentia 2
English. 30B04B12	Inglish Language B2-1 a full-year, two semester preparation course for the universitys compulsory B2-level Engliping students reach a level required to pass the B2-level English Examination (or imprabulary and grammar expected of students at the university level. *NOTE: This exam is a longlish Language B2-2 a full-year, two semester preparation course for the university level. *NOTE: This exam is a longlish Language B2-2 a full-year, two semester preparation course for the universitys compulsory B2-level Engliping students reach a level required to pass the B2-level English Examination (or imprabulary and grammar expected of students at the university level. *NOTE: This exam is a chinical English Course students who have successfully passed the B2 Exam or have met the exam requirement are in English in a variety of formats. This will be practiced by examining the structure and explanatory article, and a research article. Tech Language 0 as ERASMUS students - especially beginners. The course is taught on the basis of Engloronunciation, vocabulary and grammar structure of the Czech language, and also provides Republic. Tech language 2 Ign students studying in Czech, it further develops their language knowledge and skills tech language 2 Ign students studying in Czech, it further develops their language knowledge and skills to discent the students an orientation not only in general problems of ethics but above all to of ususions in which students can react to lectures but also to actual questions coming with the students are react to lectures but also to actual questions coming with the presons, schools and ideas of ancient philosophy. We are concerned especially of recent problems of science, technology, economics and politics.	glish Examination ove their English also used for dete glish Examination ove their English also used for dete to the their English to the their English to meet the need to meet the need fer instructions for the news and look on transdisciplinar	s and vocable (Anglický ja for a higher rmining an a (Anglický ja for a higher rmining an a ve is to prepa n formal Eng poort. The go useful phras ds of technic or solving va for the comr y nature of p	ulary expans azyk B2 - zko mark), it als appropriate le zyk B2 - zko mark), it als appropriate le al university al university al university rious situation munal answe	Z puška - B0BC o focuses mevel of Englis Z uška - B0BC o focuses mevel of Englis Z uška - B0BC o focuses mevel of Englis Z uska - B0BC o focuses mevel of Englis Z uska - B0BC o focuses mevel of Englis Z to be able to cticing via 3 Z urse is to giv or everyday of everyday of everyday of everyday of everyday of exercises to giv S tudents Z kZ ons of human ers. ZK nd connection KZ	anding spoker 3 04B2Z*). While ore on the sh for Erasmus 3 4B2Z *). While ore on the sh for Erasmus 2 communicate different types 2 e the students communication 2 4 a life. Essentia 2 on of old 4
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A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
B0B39GRT	Graphical Design	KZ	5
	i overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical do	I	_
B0B16HTE	History of technology and economic	ZK	2
B0B16HT1	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
A0B04N1	į	Z	2
	German language 2	Z	2
A0B04N3	German language 3		
A0B04ON	Professional German	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers anguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba	-	
1	language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
texts of various types	can guage in practical statations. For win be able to participate in meetings and discessions, expressing opinions electry and be a CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries.	es taught and ass	essed in English
	take CAE at British Council.	. ,	
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	I	1
	anguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based		
	language 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 course	_	-
' '	ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries.	es. It is possible b	ut not necessary
	take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.		
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
	e 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
	anguage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.	7	T
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A0B04CA	Technical English for Pre-Intermediate	Z	2
TVV	Physical education	Z	0
A003TV	Physical Education	Z	2
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Code of the group: BSITMPV4

Name of the group: Compulsory subjects

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

Credits in the group: 0

Note on the group:

Zaměření: Informační systémy a podnikání

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B6B16FIP	Corporate finance Ji í Vaší ek, Old ich Starý, Josef ernohous Ji í Vaší ek Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S+2D	L	V
B6B16MPR	Decision Making Methods Martin Dobiáš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2S+2D	Z	V
B6B16ISP	Business Process Management Pavel Náplava, Jan Ko í Jan Ko í Pavel Náplava (Gar.)	Z,ZK	5	2P+2S+2D	Z	V
B6B16ZMI	Marketing Research Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S+2D	Z	V

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

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

Code of the group: BSITMPV1

Name of the group: Compulsory subjects

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

Credits in the group: 0

Note on the group:

Zaměření: Multimediální technologie

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

BOB39IVIIVIT	Multimedia	∠,∠n	0
The course gives studer	its knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are foci	used on presentat	ion of standards,
technologies, methods a	and approaches commonly used in commercial and alternative creation processes. The presented topics include production	process of multim	nedia content,
interactive multimedia a	oplications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The	e course also con	tain problematics
of archivation and distril	oution of multimedia content. The part of the course is also a project with use of presented technologies and methods.		

	1 1 7 1		
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	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
вовз9КАЈ	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 successfully 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	limitations and new capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is used. Course is not focused					
on introduction of basic	on introduction of basic 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			
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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B6B32DSV	Distributed Computing Peter Macejko Peter Macejko (Gar.)	Z,ZK	5	2P + 2L + 4D	Z	V
B6B32ST2	Advanced Networking Technologies Leoš Bohá Leoš Bohá Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 4D	Z	V
B6B32SOS	Network Operating Systems Pavel Troller Ján Ku erák Pavel Troller (Gar.)	Z,ZK	5	2P + 2L + 2D	Z	V
B6B36SPS	Computer Networks Administration Jan Kubr	Z,ZK	5	2P+2C+3C) L	V
B6B32TKS	Telecommunications Networks Ivan Pravda	Z,ZK	5	2P + 2L + 2D	L	V

Characteristics of the courses of this group of Study Plan: Code=BSITMPV3 Name=Compulsory subjects							
B6B32DSV	Distributed Computing	Z,ZK	5				
The course is focused of	n technologies that support distributed computing: on mechanisms ensuring reliable, efficient and secure connection of appl	ication processes	, programming				
interfaces of communication	interfaces of communication channels and up-to-date middleware technologies. A significant part of lectures is dedicated to distributed algorithms that assure causality, exclusive						
access, deadlock detec	access, deadlock detection/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	rmed 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

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

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 the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able		
-	te language in practical situations, fou will be able to participate in meetings and discussions, expressing opinions cleanly 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		-
	is. 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	S	Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	 Z	2
A0B04FCE1	FCE 1	<u></u>	2
	ا led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Europ	_	-
	mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.		
A0B04FCE2	FCE 2	Z	2
The course is air	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eurol	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		
Reference for Lang		· ·	
	uages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - a obtaining the required skills needed for B2 CEFR.	and is submitted to	the goal of
A0B04FCE4	obtaining the required skills needed for B2 CEFR. FCE4	and is submitted to	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	the goal of 2 rame. The
The course is air	obtaining the required skills needed for B2 CEFR. FCE4	and is submitted to Z pean Language Fr	the goal of 2 rame. The
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B0B04A21 English Language A2-1 Z The course is open to students who are beginners in their second Isinguage. Course objective: Achieving competence in basic English. B0B04A22 The course is open to students who are beginners in their second Isinguage. Crouse objective: Achieving competence in basic English. B0B04B11 Z 0 The course is open to students who are beginners in their second Isinguage. The course objective is to develop and sustain their basic knowledge of the English language B1-1 Z 0 D0B04B11 English Language B1-1 Z 0 Course objective: Broadening the basic knowledge of general English mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoke English. B0B04B12 English Language B1-2 Calsastified assessment KZ 0 Wereflying of the students is salike of B1 level. B0B04B21 English Language B1-2 Calsastified assessment KZ 0 Wereflying of the students is salike of B1 level. B0B04B21 English Language B1-2 Calsastified assessment KZ 0 Wereflying of the students is salike of B1 level. B0B04B21 English Language B2-1 English Language B2-1 English Language B3-1 Calsastified assessment KZ 0 Wereflying of the students is salike of B1 level. B0B04B21 English Language B3-1 Calsastified assessment KZ 0 Wereflying of the students is salike of B1 level. B0B04B21 English Language B3-1 Calsastified assessment KZ 0 Wereflying of the students is a B2-level English Examination (Anglicky) jazyk B2 - zkouška. B0B04B22*), which course is docused on helping students reach a level required to pass the B2-level English Examination (Anglicky) jazyk B2 - zkouška. B0B04B22*) international and technical vocabulary and grammar expected of students at the university level. NOTE: This seam is also used for determining an appropriate level of English for Examination (Anglicky) jazyk B2 - zkouška. B0B04B22*) international examination (Anglicky) jazyk B2 - zkouška. B0B04B22* Salika	The course is aimed		course is to give	the students
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The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic English. BOB04821	B0B04A21	English Language A2-1	Z	
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B0B04B11	B0B04A22	English Language A2-2	Z	0
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoke English. B0B04B12	The course is open	to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowled	dge of the English	language.
B0B04B12	B0B04B11	English Language B1-1	Z	0
B0B04B12 English Language B1-2 Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoke English. B0B04B1K English language B1 - classified assessment KZ 0 B0B04B21 English Language B2-1 English Language B2-1 B0B04B21 English Language B2-1 English Language B2-1 English Examination (Anglický jazyk B2 - zkouška - B0B04B22*). Whith the course is focused on helping students reach a level required to pass the B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B22*). Whith the course is focused on helping students reach a level required to pass the B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B22*). Whith the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. "NOTE: This exam is also used for determining an appropriate level of English for English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university scompulsory B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B22*), which is course is focused on helping students reach a level required to pass the B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B22*), which is course is focused on helping students reach a level required to pass the B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B22*), which is course is focused on helping students are calculated to special students at the university scompulsory between the scourse of th	Course objective: Bro	adening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	ansion; understar	ding spoker
Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoke English. B0B04B1K		<u> </u>	<u> </u>	
B0B04B1K	I I		_	
B0B04B1K	Course objective: Bro		ansion; understar	nding spoken
Verifying of the student's skills of B1 level English Language B2-1 English Examination (Anglický jazyk B2 - zkouška - B0804B227). Wh the course is designed as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - zkouška - B0804B227). Wh the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. **NOTE: This exam is also used for determining an appropriate level of English for Eram /International Study. B0B04B22 English Language B2-2 English Language B2-2 English Examination (Anglický jazyk B2 - zkouška - 80804B227). Wh the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. **NOTE: This exam is also used for determining an appropriate level of English for Eram /International Study. B0B04B2Z English language B2 - exam /International Study. CERTISH (Anguage) of an examination explusted on the scale A, B, C, D, or E(SERR Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully complete the study programme, 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 subject and	DODO (DAI)		1/7	
English Language B2-1	B0B04B1K		KZ	0
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BOB04B22	_			
BOB04B22 English Languages Z2 Z 3 This course is designed as a full-year, two semester preparation course for the university compulsory 82-level English Examination (Anglický jazyk 82 - zkouška - BOB04822 7). Whith the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. "NOTE: This exam is also used for determining an appropriate level of English for Erasm / International Study. BOB04B2Z 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 at Regulations for Students at CTU (Part III, Article 4), a compulsory subject so no en whose completion is a necessary condition in order to successfully complete the study programme. 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 Referen 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 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 subject 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 go the department website: http://jazyky.fel.cvut.cz/ BOB16ET1 Filia and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/ BOB16FIL Philosophy 1 Filia 2 A Aim of this subject is to provide the students an orientation not only in general problems of ethics but above all to offer inst				
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26000	Databasa Cystema	/ ///	
36DBS irse is designed a	Database Systems as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language	Z,ZK	6 is well as fo
-	as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language noose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing		
	architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted semin	-	,
36PJV	Programming in Java	Z,ZK	6
	e basics of algorithms and programming from the first semester and introduces students to the Java environment. The course		ject concep
ava language. Th	e topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working w	vith files and using g	eneric type
	portant topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowle	-	
• .	and semester work, which will be submitted continuously through the source code version control system. The semester work		oints for th
	ectness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and		
39GRT	Graphical Design	KZ	drawing
	overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical d		1
39KAJ	Client applications in JavaScript	Z,ZK	5
39MM1	Multimedia 1 ts knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focus	Z,ZK	6 of standard
-	and approaches commonly used in commercial and alternative creation processes. The presented topics include production	•	
•	oplications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The		
of ar	rchivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies ar	nd methods.	
39PGR	Computer graphics programming	Z,ZK	6
01LAG	Linear Algebra	Z,ZK	7
01MAA	Mathematics Analysis	Z,ZK	5
urse is an introdu	uction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its application		polynomia
	and definite/indefinite integral with its applications, sequences and series.		
01PST	Statistics and Probability	Z,ZK	4
udents will be intr	roduced to the theory of probability and mathematical statistics, namely to the basic computing methods and their applications	s in practice. The co	rse cover
	pility and mathematical statistics. The first part is focused on classical probability, including conditional probability. The next part		•
	outions, examples of the most important types of discrete and continuous distributions, numerical characteristics of random vari		
	nations. Probabilistic knowledge is then used in the description of statistical methods for estimating distribution parameters and		r
01ZDM	Introduction to Discrete Mathematics	Z,ZK	5
vanced knowlege	es of mathematics are required at the beginning of this course. Using illustrative examples we build sufficient understanding o theory. Then we proceed to a brief formal construction of predicate calculus.	r combinatorics, set	and grapn
04DDE		V7	
04PRE	Presentation	KZ	3
316FIP	Presentation Corporate finance	Z,ZK	5
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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 are		-
department/departr	nents. The project's subject can be closely related to the future Bachelor thesis. Further instructions for the selection and resolution c the web pages of the selected department. Within this course the project is also defended.	of the 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 or		-
	graphic notation - UML.		,
B6B36SPS	Computer Networks Administration	Z,ZK	5
B6B36TS1	Software Testing	Z,ZK	5
B6B36ZAL	Introduction to Programming	Z,ZK	5
B6B36ZPR	Introduction to Project Management	KZ	3
	uces students to the general (not only IT) basics of project management. In addition to basic project management concepts (planning		_
	cal 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
	basics of Computer Cysterns oduces students to the basic concepts of computer technology and computer networks. The following lectures are focused on digital		_
	processor and its instruction set. Common and special architectures and specialized instruction sets, ways to increase processor pe		
	e computer architecture description, memories and their categorization in terms of functional principles and application use will be be		
	re focused on getting acquainted with operating systems, multitasking, inter-process communication and synchronization, resource m		-
•	I deal with the computer networks - first in general (OSI model) and then more specifically with an introduction to TCP / IP protocols. F	•	
	lescribed in more detail, including disk partitioning, file systems, and access rights. Finally the basics of electronics and optoelectronic		
•	students to further deepen their knowledge in this area through self-study will be introduced.		
B6B39PDA	Principles of mobile applications	Z,ZK	6
	ccessfully passed the course get overview about properties and about limits of single mobile technologies. The course is focused on		_
limitations and new	capabilities of mobile devices. Attention is paid to maximal utilization of environment characteristics in which the mobile application is	s used. Course is	not focused
on introduction of	f basic programming techniques for mobile application development - it is expected that students already have this skills or will be ga	ined by means of	self-study.
B6B39TDM	3D Modeling	1/7	_
	ob wodoling	KZ	5
B6B39TUR	<u> </u>		5
B6B39TUR Students will learn	User Interface Testing the basic principles of user interface testing in the context of User-Centered Design. The course covers the most important topics in	Z,ZK	5
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