Name of study plan: Open Electronic Systems

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: Open Electronic Systems Type of study: Bachelor full-time Required credits: 180 Elective courses credits: 0 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: 87 The role of the block: P

Code of the group: 2020_BOESBAP

Name of the group: Bachelor Thesis

Requirement credits in the group: In this group you have to gain 15 credits

Requirement courses in the group: In this group you have to complete at least 1 course (at most 0) Credits in the group: 15

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
BBAP15	Bachelor thesis	Z	15	15s	L,Z	Р

Ζ

15

Characteristics of the courses of this group of Study Plan: Code=2020_BOESBAP Name=Bachelor Thesis

BBAP15 Bachelor thesis

Code of the group: 2020_BOESBBE

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=2020_BOESBBE Name=Safety of the bachelor's studies

BEZB	Safety in Electrical Engineering for a bachelor's degree	Z	0					
The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course								
contains fundamentals 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: 2020_BOESP

Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 72 credits Requirement courses in the group: In this group you have to complete at least 12 courses Credits in the group: 72 Note on the group:

Note on the g						
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
A8B14ADP	Algorithm Development and Programming Radek Havlí ek, Ji í Zd nek Ji í Zd nek Ji í Zd nek (Gar.)	Z,ZK	5	2P+2C	Z	Р
B0B01DRN	Differencial Equations and Numerical Analysis Petr Habala, Daniel Gromada, Josef Dvo ák, Karel Pospíšil Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Ρ
A8B01DMG	Discrete Math.& Graphs Marie Demlová Marie Demlová (Gar.)	Z,ZK	5	3P+1S	Z	Ρ
B2B02FY1	Physics 1 Petr Kulhánek, Petr Koní ek Petr Kulhánek Petr Kulhánek (Gar.)	Z,ZK	8	4P+1L+2C	L	Р
B2B02FY2	Physics 2 Petr Kulhánek, Petr Koní ek Petr Kulhánek Petr Kulhánek (Gar.)	Z,ZK	7	3P+1L+2C	Z	Р
A8B01LAG	Linear Algebra Josef Dvo ák, Karel Pospíšil, Ji í Velebil, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
A8B01MC1	Mathematics-Calculus1 Martin K epela, Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01MCT	Mathematics-Complex Variable and Integral Transforms Martin Bohata Martin Bohata Martin Bohata (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01MCM	Mathematics-Calculus m-D Martin K epela, Martin Bohata, Petr Hájek, Jaroslav Tišer Martin Bohata Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L	Р
A8B01AMA	Advanced Matrix Analysis Martin K epela Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	4	3P+1S	L	Ρ
A8B01OGT	Optimization and Game Theory Martin Bohata Martin Bohata Martin Bohata (Gar.)	Z,ZK	4	3P+1S	L	Р
B0B01PST	Probability and Statistics Kate ina Helisová, Matvei Slavenko, Miroslav Korbelá, Veronika Sobotíková Kate ina Helisová Petr Hájek (Gar.)	Z,ZK	7	4P+2S	Z	Р

Characteristics of the courses of this group of Study Plan: Code=2020_BOESP Name=Compulsory subjects of the programme

A8B14ADP Algorithm Development and Programming	Z,ZK	5
Course objective: Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C prog	ramming languag	ge, Syntax and
semantics. Basic skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, paramet	er passing, array	s, pointers,
structures, compilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems p	rogramming and	debugging.
B0B01DRN Differencial Equations and Numerical Analysis	Z,ZK	4
This course introduces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical m	ethods (errors in	calculations and
stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoreti	cal and practical	point of view.
A8B01DMG Discrete Math.& Graphs	Z,ZK	5
The course introduces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the c	ourse covers: infi	nite sets with
emphasis to cardianlity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic	c structures (inclu	idin finite fields
of characteristic 2). Furher the course contains basic notions and their applications from graph theory.		
B2B02FY1 Physics 1	Z,ZK	8
The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The		
and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dyna		
of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which the		•
studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The s	students can use	the facts gained
in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics.	rse is required for	the study of the
consecutive course Physics 2.		
B2B02FY2 Physics 2	Z,ZK	7
The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of the	thermodynamics.	Following topic
- the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presente	•	
universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following sections of the subject of the following section of the subject of t	ion. Quantum me	chanics and
nuclear physics will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of su	ch modern areas	as robotics,
computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic device	es.	
A8B01LAG Linear Algebra	Z,ZK	7
This course covers introductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear indep	endence, bases a	and coordinates)
and matrices (determinants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geometry	etry in n-space (ir	ncluding dot
product and cross product).		
A8B01MC1 Mathematics-Calculus1	Z,ZK	7
The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.		
A8B01MCT Mathematics-Complex Variable and Integral Transforms	Z,ZK	7
A8B01MCM Mathematics-Calculus m-D	Z,ZK	7
The subject covers an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integral	s. Other part cont	ains function
series and power series with application to Taylor and Fourier series.		

A8B01AMA	Advanced Matrix Analysis	Z,ZK	4		
The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions.					
A8B01OGT	Optimization and Game Theory	Z,ZK	4		
B0B01PST	Probability and Statistics	Z,ZK	7		

Code of the group: 2020_BOESZAJ Name of the group: Exam from the english language Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 1 course 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
B0B04B2Z	English language B2 - exam Dana Saláková, Petra Jennings, Michael Ynsua Petra Jennings Petra Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р

Characteristics of the courses of this group of Study Plan: Code=2020_BOESZAJ Name=Exam from the english language

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 courses of the specialization Minimal number of credits of the block: 85 The role of the block: PO

Code of the group: 2020_BOESPO

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 85 credits

Requirement courses in the group: In this group you have to complete at least 17 courses

Credits in the group: 85

Note on the aroup.

Note on the gr	oup.					
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
A8B31AAC	Analog and Active Circuits Ji í Hospodka Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	6	3P+2S	Z	PO
A8B37DCMA	Digital Communications Jan Sýkora Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	3P+1C	Z	PO
A8B37DIT	Digital Design Petr Skalický Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P+2C	L	PO
A8B32DSP	Digital Signal Processing Pavel Zahradník, Boris Šimák Boris Šimák Pavel Zahradník (Gar.)	Z,ZK	5	3P + 1L	Z	PO
A8B17EFC	Electrical Field and Circuits Zbyn k Škvor, Radoslav Bortel Zbyn k Škvor Zbyn k Škvor (Gar.)	KZ	4	2P+1S	L	PO
A8B17ELD	Electrodynamics Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	5	3P+1S	L	PO
A8B38EME	Electronic Measurements Jan Holub, Jakub Svatoš Jakub Svatoš Jan Holub (Gar.)	KZ	4	2P+1L	L	PO
A8B34EOD	Electronic and Optoelectronic Devices Pavel Hazdra Pavel Hazdra Pavel Hazdra (Gar.)	Z,ZK	6	3P+2L	Z	PO
A8B34SST	Solid State Physics Jan Voves Jan Voves Jan Voves (Gar.)	Z,ZK	4	3P+1C	L	PO
A8B17CAS	Computer Algebra Systems (CAS) Miloslav apek Miloslav apek Miloslav apek (Gar.)	Z	2	1P+1C	Z	PO
A8BPROJ2	Project Lubor Jirásek, Pavel Máša, Ivan Pravda, František Rund, Jan Šístek	Z	2	0P+2S	Z,L	PO

A8B37SAS	Signals and Systems Jan Sýkora, Pavel Puri er, Karel Fliegel Karel Fliegel Jan Sýkora (Gar.)	Z,ZK	8	4P+2C	L	PO
A8B32DNT	Data Networks Theory Leoš Bohá , Zden k Be vá , Pavel Mach, Mostafa Kishanifarahani Zden k Be vá Zden k Be vá (Gar.)	Z,ZK	5	3P + 1L	Z	PO
A8B17EMTA	Electromagnetic Field Theory Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	7	4P+2S	Z	PO
A8B31CIR	Circuit Theory Ji í Hospodka Ivan Zemánek Ivan Zemánek (Gar.)	Z,ZK	8	4P+2S	L	PO
A8B32IES	Introduction to Electronic Systems Ji í Hospodka, Jan Sýkora, Stanislav Vítek, Pavel Zahradník, Zbyn k Škvor, Pavel Hazdra Zbyn k Škvor Zbyn k Škvor (Gar.)	Z	2	0P + 2L	Z	PO
A8B37SSP	Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	PO
Characteristics of th	e courses of this group of Study Plan: Code=2020_BOESPO Na	me=Compuls	sory sub	jects of t	he branc	h
	nalog and Active Circuits				,ZK	6
-	oriented on presentation, matematical description, analysis and sythesis of basic analo ctronic components operating in linear and non-linear modes.	ogue active circuit	s and funct	ION DIOCKS OF	electronic s	stems based
	gital Communications			Z	,ZK	6
The course provides fundar	nentals of digital communications theory: modulation, classical coding, channel models			-		
0	nes which allow to reveal all inner connections and principles. This allows students to de nication systems. The course provides a necessary fundamental background for subseq		0		,	° I
	gital Design				,ZK	5
	introduce the philosophy of digital circuits' design, to provide formal description of comb	inational and seq	uential logi		·	-
	l description, as well as minimization algorithms for output and transient functions of dig	, i		•	0	
	and Moore machines are the essential part of the content. The subject matter discusse	ed will be tested o	n the typica		<u> </u>	
	gital Signal Processing n basics in the digital signal processing, systems and methods for digital signal process	ing		2	,ZK	5
	ectrical Field and Circuits	inig.			κz	4
	ectrodynamics				,ZK	5
	ectrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory).	The course starts	with a deco	1	·	netic field into
	iation of waves and guides student through the interaction of electromagnetic waves wit			-	e guides and	transmission
	urse ends with wave scattering. The knowledge gained in this course is needed for numl	ber of specialized	master cou		(7	4
	ectronic Measurements trology fundamentals and uncertainty apparatus. It explains both elementary principles and		d mothode	1	KZ	4
and radio communications.	noiogy fundamentais and uncertainty apparatus. It explains both elementary principles and	Selected advance	umethous		Unics, leiecu	mmunications
A8B34EOD EI	ectronic and Optoelectronic Devices			Z	,ZK	6
This course introduces the	basic theory, principles of operation and properties of electronic and optoelectronic devi	ices. Physical prin	ciples of op	peration, dev	ice structure	s and
	d together with adequate models for small- and large-signal. Basic applications in analc					
systems is then analyzed u	basic principles of device simulation, measurement of device characteristics and extracti sing the PSpice simulator	on of device para	neters. Op	eration of ele	ctron device	s in electronic
	blid State Physics			7	,ZK	4
	I state physics including some parts of statistical physics. The subject informs about basic p	properties of mater	ials used in			
A8B17CAS Co	omputer Algebra Systems (CAS)				Z	2
A8BPROJ2 Pi	oject				Z	2
A8B37SAS Si	gnals and Systems			Z	,ZK	8
	e signal representation in time and frequency domain. Stochastic signals and their parar		y principles	s of analog m	odulations w	ith their noise
	urse for further study focusing on communication, measurement and signal processing. ata Networks Theory			7	,ZK	5
	ectromagnetic Field Theory				,ZK ,ZK	7
-	th physics fundaments of the electromagnetic theory and with its mathematical descript	ion. Particularly, th	ne course g		·	
magnetostatics, introduces	coupling between time varying fields and it is ends with an introduction to an electroma	gnetic wave. The	knowledge	gained in thi	s course are	needed for
	BB17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors a	nd a number of s	pecialized r			-
	rcuit Theory a complet systematic presentation of electrical circuit theory. It is based on general physi	ical patura of alag	tromognotiv		,ZK	8 t is presented
	complet systematic presentation of electrical circuit freedy. It is based on general physic case of electromagnetic field. It defines basic circuit quantities (voltage, current) and ba					
	riented on linear electrical circuit (analogue LTI systems), it presents basic priciples and		-		-	
° ,	ient states (modes), respectively. The time domain and frequency domain analysis is st			characteriza	ation is appli	ed on circuit
	, stability analysis, and feedback theory. At the end the subject deals with basis of discre troduction to Electronic Systems	eie LII systems th	ieory.		Z	2
	with syllabus composed of a set of demonstrations and measurements. Its content is di	ivided into several	themes. S	l tudents have	1	
	ge. The goal is to complete the missing knowledge and skills which may vary in student					
about the scope of the OES					·	
	atistical Signal Processing	0) data ati il		1	,ZK	6
	nentals in three main domains of the statistical signal processing: 1) estimation theory, is theory with many applications ranging from digital communications, audio and video processing the process of the statement of the process of the statement of the statem	-		-	-	
evaluation, etc.	and provide the second standing from digital communications, audio and video pro	all			.curomont di	

Name of the block: Elective courses Minimal number of credits of the block: 8 The role of the block: V

Code of the group: 2020_BOESHEM

Name of the group: Humanities, economically-management subjects

Requirement credits in the group: In this group you have to gain at least 8 credits (at most 139)

Requirement courses in the group:

Credits in the group: 8

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
BE9M04AKP	Academic Writing Petra Jennings, Michael Ynsua Petra Jennings Petra Jennings (Gar.)	КZ	2	2C	L	V
B3B04PSA	Academic Writing Petra Jennings, Jitka Pinková Jitka Pinková Petra Jennings (Gar.)	КZ	2	2C	Z	V
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
A0B04KA2	English Conversation 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04OA	Technical English Course Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	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
A0B04CIN2	Chinese Language 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B16EPD	Business economics	KZ	4	2+2s	Z,L	V
B0B16ET1	Ethic 1 Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	V
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16FI1	Philosophy 1 Peter Zamarovský 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 Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)	КZ	4	2P+2S	Z	V
A0B04JAP	Japanese Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04JAP2	Japanese 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A1B16MME	Macro and Microeconomics	Z,ZK	5	2+2s	Z	V
B0B16MPS	Psychology Jan Fiala Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	V
A0B04GN	German Grammar Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN	German Conversation Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN2	German conversation 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04N1	German language 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04N2	German language 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V

A0B04N3	German language 3 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04ON	Professional German Petra Jennings Dana Lisá (Gar.)	Z	2	2C	Z,L	V
BE9M04PRE	Presentation Skills Petra Jennings, Erik Peter Stadnik Petra Jennings Petra Jennings (Gar.)	KZ	2	2C	Z	V
B6B04PRE	Presentation Petra Jennings, Jitka Pinková Jitka Pinková Petra Jennings (Gar.)	KZ	3	1P+1C	Z	V
A0B16PRS	Presentation skills	Z	2	2s	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
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 Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	V
A0B04RET	Rhetoric Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2 Dana Saláková	Z	2	2C	*	V
A0B04R1	Russian language 1 Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04R2	Russian language 2 Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04R3	Russian language 3 <i>Jitka Pinková</i>	Z	2	2C	*	V
A0B04R4	Russian language 3 Dana Saláková	Z	2	2C	*	V
A0B04KS1	Spanish conversation 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04KS2	Spanish conversation 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04S1	Spanish language 1 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
A003TV	Physical Education	Z	2	0+2	L,Z	V

Characteristics of the courses of this group of Study Plan: Code=2020_BOESHEM Name=Humanities, economically-management subjects

BE9M04AKP	Academic Writing	KZ	2				
ACADEMIC WRITING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to improve the student's skills and							
abilities of writing acade	mically (in English). This course is not simply an opportunity for students who have registered to have someone (the instruct	or) simply proofre	ad and correct				
their texts - the ultimate	goal of the course will be that the student is able to write (better) in English at an academic level. If a student's level of Englis	sh is not up to the	expected level				
of this course (B2 Upper-Intermediate), it is the student's responsibility to take action to improve it (outside of this course). It is hoped that by working and writing in English on a regular							
basis throughout this co	urse that participants will, naturally, improve their level of English in one way or another.						
B3B04PSA	Academic Writing	KZ	2				
Practically focused cour	se in which students learn how or improve their ability to correctly and effectively formulate common written documents such	as their own note	es, research,				
reports, protocols, articl	es, etc. Students will be acquainted with the main principles of writing professional texts.						
A0B04GA		Z	2				
The aim of this course is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The course is meant mainly as a							
	······································	no course lo mou	in mainly as a				
	who have not yet passed the B2 examination and are interested in further study and additional practice.		int mainly as a				
		Z	2				
supplement for students	who have not yet passed the B2 examination and are interested in further study and additional practice.	Z	2				

A0B04KA2	English Conversation 2 I for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary th		2 s well as learn
-	s, to communicate on a variety of topics and themes. The course is generally designed as a follow-up to the Conversation Or		
	rer, attending Conversation One is not a pre-requisite. This course is not designed for beginners.	no oburoo, bunanig	
A0B04OA	Technical English Course	Z	2
	I for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare	1 – 1	_
about technical subject	matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English	and practicing via	3 different types
of texts: an abstract, a s	short explanatory article, and a research article.		
A0B04C2Z	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 un	niversity students	
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 un	niversity students.	
A0B04CIN		Z	2
A0B04CIN2	Chinese Language 2	Z	2
A0B16EPD	Business economics	KZ	4
	ss Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see lis	1 1	nd relationships
between them. Aim of t	he course is to show Business Economics in its complexity. The course is focused on more practical questions than a plain the	heory. General con	clusions of each
sub-topic follow concret	te practical examples. Own business plan is prepared by each student as a semestra project. The business plan plays a key m	ole for exam result	of each student.
B0B16ET1	Ethic 1	KZ	4
Aim of this subject is to	provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various	s situations of hum	an life. Essential
parts of the subject are	discussions in which students can react to lectures but also to actual questions coming with news and look for the commun	al answers.	
B0B16FIL	Philosophy	ZK	2
We deal with the most i	important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo	osophy and connec	tion of old
	with recent problems of science, technology, economics and politics.	· · · · · · · · · · · · · · · · · · ·	
B0B16FI1	Philosophy 1	KZ	4
	important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo	osophy and connec	tion of old
	with recent problems of science, technology, economics and politics.		
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
B0B39GRT	Graphical Design	KZ	5
The course grants an o	verview of graphical design and typography. It includes also a practical training in creating graphical design of electronical do	ocuments and hand	d drawing.
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
A0B04JAP2		Z	2
	Japanese 2		
A1B16MME	Acro and Microeconomics market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior,	Z,ZK	5
	onopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary		
	ign trade policy, comparative advantage, CR and EU, Euro.	y policy, labor main	
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
BE9M04PRE	Presentation Skills	KZ	2
The overall aim of this of	course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will b	e taken systematic	ally through the
key stages of giving pre	esentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate the	neir thoughts and id	leas in a logical
	and in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation	n of presenting idea	s; throughout
	Il practice skills that will enable them to become better speakers and presenters.	· · · · · · · · · · · · · · · · · · ·	
B6B04PRE	Presentation	KZ	3
A0B16PRS	Presentation skills	Z	2
	repare and to do presentation. They will obtain skills how to prepare written documents using typographic principles and prop	per way of citation a	and referencing.
	theoretical knowledge on self prepared interactive presentation that is recorded on video and discussed.		
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers	-	
	guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba		
	nguage 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	-	-
	s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	ies. It is possible bu	it not necessary
ior obtaining credit to ta	ake 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		
	anguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba		
	language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
texts of various types	. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours	es taught and ass	sessed in English
as well as by employe	ers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	ies. It is possible b	out not necessary
for obtaining credit to	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
The aim of the course	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
you to improve your la	anguage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.		
A0B04FCE1	FCE 1	Z	2
The course is aimed	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu	ropean Language	Frame. The
course focuses on im	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta	ining the required	skills needed for
B2 ELF.			
A0B04FCE2	FCE 2	Z	2
The course is aimed	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu	ropean Language	Frame. The
	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta	ining the required	skills needed for
B2 ELF.		-	,
A0B04FCE4	FCE4	Z	2
	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu		
	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta	ining the required	skills needed for
B2 ELF.			
			1
A0B04FCE3	FCE 3	Z	2
A0B04FCE3 The course is aimed t	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co	ommon European	Framework of
A0B04FCE3 The course is aimed to Reference for Langua	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic	ommon European	Framework of
A0B04FCE3 The course is aimed the course for Languation obtaining the required	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR.	ommon European cs - and is submit	Framework of ted to the goal of
A0B04FCE3 The course is aimed in Reference for Langua obtaining the required A0B04PZP	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany	cs - and is submit	Framework of ted to the goal of
A0B04FCE3 The course is aimed the course for Languation obtaining the required	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR.	ommon European cs - and is submit	Framework of ted to the goal of
A0B04FCE3 The course is aimed in Reference for Langua obtaining the required A0B04PZP	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany	cs - and is submit	Framework of ted to the goal of
A0B04FCE3 The course is aimed the course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers	Z Z Z Z Z Z Z Z	Framework of ted to the goal of 2 2 2 2
A0B04FCE3 The course is aimed the course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subject	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychol	Z Z Z Z K Z f the prospective e	Framework of ted to the goal of 2 2 2 engineers and
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subjects so that the students of the stachelors.	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of	The prospective cological barriers for the prospecti	Framework of ted to the goal of 2 2 ngineers and r public speaking
A0B04FCE3 The course is aimed the course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subject	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychol	Z Z Z Z K Z f the prospective e	Framework of ted to the goal of 2 2 2 engineers and
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subjects so that the students of the stachelors.	Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentations, non verbal communication and remove the psychology to the students to develop both spoken and written presentations, non verbal communication and remove the psychology for the subject.	The prospective cological barriers for the prospecti	Framework of ted to the goal of 2 2 ngineers and r public speaking
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subject so that the students of A0B04KR2	Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentations, non verbal communication and remove the psychology in an environment of the students to develop both spoken and written presentations, non verbal communication and remove the psychology and interview and introduction to this subject. Russian conversation 2	The prospective e	Framework of ted to the goal of 2 2 ngineers and r public speaking 2
A0B04FCE3 The course is aimed I Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subject so that the students of A0B04KR2 A0B04R1	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psycholcan create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 1 Russian language 2	Z Z Z Constant Sector Constan	Framework of ted to the goal of 2 2 engineers and r public speaking 2 2 2
A0B04FCE3 The course is aimed the course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the stachelors. This subjects so that the students of A0B04KR2 A0B04R1 A0B04R3	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychocan create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 1 Russian language 3	The prospective ecological barriers for t	Framework of ted to the goal of 2 2 engineers and r public speaking 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the st bachelors. This subjects so that the students of A0B04KR2 A0B04R1 A0B04R2 A0B04R3 A0B04R4	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psycholar create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 1 Russian language 2 Russian language 3 Russian language 3	The prospective ecological barriers for t	Framework of ted to the goal of 2 2 engineers and r public speaking 2 2 2 2 2 2
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the st bachelors. This subjects so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R4 A0B04KS1	Preparation for stay in Germany Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentations, non verbal communication and remove the psychology and image. The course "Retorika" provides an introduction to this subject. Russian language 1 Russian language 2 Russian language 3 Spanish conversation 1	Z ZK Z is submit Z	Framework of ted to the goal of 2 2 ngineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed f Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subject so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R4 A0B04KS1 A0B04KS2	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychocan create a good image. The course "Retorika" provides an introduction to this subject. Russian language 1 Russian language 2 Russian language 3 Spanish conversation 1 Spanish conversation 2	Z Z	Framework of ted to the goal of 2 2 mgineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed f Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subject so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R4 A0B04KS1 A0B04KS2 A0B04S1	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychocan create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 3 Russian language 3 Spanish conversation 1 Spanish conversation 2 Spanish language 1	Z ZK Z is submit Z Z is the prospective e plogical barriers for Z	Framework of ted to the goal of 2 2 angineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed I Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subjective so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R3 A0B04R4 A0B04KS1 A0B04KS1 A0B04S2	Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentations, non verbal communication and remove the psychology in conversation 2 Russian language 1 Russian language 3 Russian language 3 Spanish conversation 1 Spanish language 3 Spanish language 1 Spanish language 3 Spanish language 1 Spanish language 2 Spanish language 1 Spanish language 2 Spanish language 1 Spanish language 1 Spanish language 2	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Framework of ted to the goal of 2 2 angineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed I Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subjects so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R3 A0B04R4 A0B04KS1 A0B04KS1 A0B04S2 A0B04S3	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychocan create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 1 Russian language 3 Spanish conversation 1 Spanish conversation 2 Spanish language 1 Spanish language 3 Spanish language 3 Spanish language 1 Spanish language 3 Spanish language 3	Z ZK Z K Z	Framework of ted to the goal of 2 2 2 angineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed the required obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the st bachelors. This subjects so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R4 A0B04KS1 A0B04KS1 A0B04S2 A0B04S3 A0B04S3 A0B04S4	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Cc ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psycho can create a good image. The course "Retorika" provides an introduction to this subject. Russian language 1 Russian language 2 Russian language 3 Spanish conversation 2 Spanish language 1 Spanish language 1 Spanish language 3 Spanish language 3 Spanish language 4	Z ZK Z is submit Z Z is submit Z	Framework of ted to the goal of 2 2 mgineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04FCE3 The course is aimed I Reference for Langua obtaining the required A0B04PZP B0B16MPL A0B04RET The objective of the s bachelors. This subjects so that the students of A0B04KR2 A0B04KR2 A0B04R3 A0B04R3 A0B04R4 A0B04KS1 A0B04KS1 A0B04S2 A0B04S3	Preparation for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Ccages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic d skills needed for B2 CEFR. Preparation for stay in Germany Psychology for managers Rhetoric subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychocan create a good image. The course "Retorika" provides an introduction to this subject. Russian conversation 2 Russian language 1 Russian language 3 Spanish conversation 1 Spanish conversation 2 Spanish language 1 Spanish language 3 Spanish language 3 Spanish language 1 Spanish language 3 Spanish language 3	Z ZK Z K Z	Framework of ted to the goal of 2 2 angineers and r public speaking 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Code of the group: BTV Name of the group: Physical education Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) TVV Ζ 0 0+2 Z,L **Physical education** V L,Z A003TV Ζ 2 0+2 **Physical Education** V TV-V1 **Physical education** Ζ 1 0+2 Z,L V TVV0 Ζ 0 0+2 Z,L **Physical education** v

Characteristics of the courses of this group of Study Plan: Code=BTV Name=Physical education

A003TV	Physical Education	Z	2
TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0

Code of the group: BTVK Name of the group: Physical education courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

Characteristics of the courses of this group of Study Plan: Code=BTVK Name=Physical education courses

TVKZV Physical Education Course 7 0	TVKLV	Physical Education Course	Z	0
	TVKZV	Physical Education Course	Z	0

Code of the group: 2020_BOESVOL 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: ~Nabídk

~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	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts.
A0B04C2Z	Czech language 2	Z	2
The course	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
The aim of the cou	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers un	ts 1-4. Studying for	r 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		
the ability to use the	ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab	le to understand ar	nd produce
texts of various type	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses t	aught and assesse	d in English
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.	t is possible but no	t necessary
	for obtaining credit to take CAE at British Council.		
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
The aim of the cou	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers un	ts 5-8. Studying for	r CAE helps
you to improve your	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based	on realistic tasks a	nd indicates
	e language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab		•
	as. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses t	•	•
as well as by emplo	yers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I		t necessary
	for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semest	r	
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the cour	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	, .	r CAE helps
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co	ntexts.	
A0B04CIN		Z	2
A0B04CIN2	Chinese Language 2	Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2

A0B04FCE1		7	0
	FCE 1 ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	Z Dean Language	2 Frame The
	improving 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 Euro	pean Language	Frame. The
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	the required ski	ills needed fo
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 Comr		
Reference for Lang	juages (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 o
A0B04FCE4	FCE4	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		1
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.		
A0B04GA		Z	2
	urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The	course is mean	t mainly as a
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract	ice.	
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04JAP2	Japanese 2	Z	2
A0B04KA	English Conversation 2	Z	2
The course is desi	gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a	Iready know, as	well as lear
	new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.		
A0B04KA2	English Conversation 2	Z	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 p	hrases, to communicate on a variety of topics and themes. The course is generally designed as a follow-up to the Conversation One	course, building	on the skills
	presented there; however, attending Conversation One is not a pre-requisite. This course is not designed for beginners.	7	0
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04KR2	Russian conversation 2	Z	2
A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2		
AUDU4N3Z		Z	2
A0B04N32	German language 1	Z	2
	German language 1 German language 2	Z Z	
A0B04N1	German language 1	Z Z Z	2
A0B04N1 A0B04N2 A0B04N3 A0B04OA	German language 1 German language 2 German language 3 Technical English Course	Z Z Z Z	2 2 2 2 2
A0B04N1 A0B04N2 A0B04N3 A0B04OA This course is desig	German language 1 German language 2 German language 3	Z Z Z nts to be able to	2 2 2 2 communicat
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig	German language 1 German language 2 German language 3 Technical English Course gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and	Z Z Z nts to be able to	2 2 2 2 communica
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub	German language 1 German language 2 German language 3 Technical English Course and for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject 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.	Z Z Z nts to be able to practicing via 3 d	2 2 2 communica different type
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON	German language 1 German language 2 German language 3 Technical English Course gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject 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. Professional German Preparation for stay in Germany	Z Z Z Ints to be able to practicing via 3 of Z	2 2 2 communica different type
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP	German language 1 German language 2 German language 3 Technical English Course gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject 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. Professional German	Z Z Z nts to be able to practicing via 3 (Z Z	2 2 2 communica different type 2 2
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is designed bout technical sub A0B04ON A0B04PZP A0B04R1	German language 1 German language 2 German language 3 Technical English Course gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject 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. Professional German Preparation for stay in Germany Russian language 1	Z Z Z nts to be able to practicing via 3 (Z Z Z	2 2 2 2 communica different type 2 2 2 2
A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2 A0B04R3	German language 1 German language 2 German language 3 Technical English Course gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject 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. Professional German Preparation for stay in Germany Russian language 1 Russian language 2 Russian language 3	Z Z Z nts to be able to practicing via 3 of Z Z Z Z Z Z	2 2 2 communica different type 2 2 2 2 2 2 2 2 2
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A8B01AMA	Advanced Matrix Analysis	Z,ZK	4
A8B01DMG	The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Discrete Math & Graphs	Z,ZK	5
	uces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the co	, ,	-
	anlity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic s of characteristic 2). Furher the course contains basic notions and their applications from graph theory.		
A8B01LAG	Linear Algebra	Z,ZK	7
	introductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear independent terminants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geome		-
	product and cross product).		laanig aot
A8B01MC1	Mathematics-Calculus1	Z,ZK	7
	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	·	
A8B01MCM	Mathematics-Calculus m-D	Z,ZK	7
The subject cove	s an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals. series and power series with application to Taylor and Fourier series.	Other part contain	is function
A8B01MCT	Mathematics-Complex Variable and Integral Transforms	Z,ZK	7
A8B01OGT	Optimization and Game Theory	Z,ZK	4
A8B14ADP	Algorithm Development and Programming	Z,ZK	5
	Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C progra		Syntax and
	skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter		•
	ilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr		
A8B17CAS	Computer Algebra Systems (CAS)	Z	2
A8B17EFC	Electrical Field and Circuits	KZ	4
A8B17ELD	Electrodynamics ELD (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition	Z,ZK	-
	Les radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The theory of	-	
	es is also shown. The course ends with wave scattering. The knowledge gained in this course is needed for number of specialized ma	-	
A8B17EMTA	Electromagnetic Field Theory	Z,ZK	7
	ainted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides s	-	
-	troduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained sequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize		
A8B31AAC	Analog and Active Circuits	Z,ZK	6
	Phatog and Active Oricons PAAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block	, ,	-
,	on basic semiconductor electronic components operating in linear and non-linear modes.	,	
A8B31CIR	Circuit Theory	Z,ZK	8
The subject AE8B3	1CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects,	an electric circuit i	is presented
The subject AE8B3 as a special quasis	1CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, tationary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kind	an electric circuit i s of actual energy	is presented interactions.
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A8B38EME	Electronic Measurements	KZ	4
The course is focuse	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e	lectronics, telecom	munications
	and radio communications.		
A8BPROJ2	Project	Z	2
B0B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	4
	ces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth		
	I solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretic		
B0B01PST	Probability and Statistics	Z,ZK	7
B0B04B2Z	English language B2 - exam	Z,ZK	0
, ,	xam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Stud		
-	dents at CTU (Part III, Article 4), a compulsory subject is one "whose completion is a necessary condition in order to successfully co		-
	equires the "passing of an examination evaluated on the scale A, B, C, D, or E…" (SERR Part III, Article 6). II) According to the Comn uages (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		,
	uency 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 succ		
	within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon appro		
	from both the Written Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel		
B0B16ET1	Ethic 1	KZ	4
	s to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ	ations of human li	e. Essential
parts of	the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co	ommunal answers.	
B0B16FI1	Philosophy 1	KZ	4
We deal with the	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	ophy and connecti	on of old
	philosophical thoughts with recent problems of science, technology, economics and politics.		
B0B16FIL	Philosophy	ZK	2
	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	ophy and connecti	on of old
	philosophical thoughts with recent problems of science, technology, economics and politics.		
B0B16HI1	History 1	KZ	4
B0B16HT1	History of science and technology 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
	· •		
B0B39GRT	Graphical Design	KZ	5
-	ts an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical doc		-
B2B02FY1	Physics 1	Z,ZK	8
	physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamic		
	ind rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they		
	al mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud	•	
	study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course		-
	consecutive course Physics 2.		,
B2B02FY2	Physics 2	Z,ZK	7
	s 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of the		owing topic
- the theory of wave	es - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented of	lescription of the w	vaves has a
universal charact	er in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section	on. Quantum mech	anics and
nuclear physics w	ill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of suc	h modern areas as	s robotics,
com	puter vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec	tronic devices.	
B3B04PSA	Academic Writing	KZ	2
Practically focuse	d course in which students learn how or improve their ability to correctly and effectively formulate common written documents such a	is their own notes,	research,
	reports, protocols, articles, etc. Students will be acquainted with the main principles of writing professional texts.		
B6B04PRE	Presentation	KZ	3
BBAP15	Bachelor thesis	Z	15
BE9M04AKP	Academic Writing	KZ	2
ACADEMIC WRI	TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to imp	rove the student's	skills and
abilities of writing a	academically (in English). This course is not simply an opportunity for students who have registered to have someone (the instructor)	simply proofread a	and correct
	mate goal of the course will be that the student is able to write (better) in English at an academic level. If a student's level of English i		
of this course (B2 L	pper-Intermediate), it is the student's responsibility to take action to improve it (outside of this course). It is hoped that by working and	writing in English	on a regular
	basis throughout this course that participants will, naturally, improve their level of English in one way or another.		
BE9M04PRE	Presentation Skills	KZ	2
	his course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will be tal		-
	g presentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate their t	-	-
and structured ord	ler - and in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation of this course students will practice skills that will enable them to become better speakers and presenters.	presenting ideas;	nrougnout
		7	0
BEZB	Safety in Electrical Engineering for a bachelor's degree	Z of it This introduc	
	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation mentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work		-
BEZZ		Z	
	Basic health and occupational safety regulations e worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech	_	0 v in Praque
-	d by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of He		-
	regulations forms an integral and permanent part of qualification requirements. This program is obligatory.		Galoty
TV-V1	Physical education	Z	1
		-	•

TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
TVV	Physical education	Z	0
TVV0	Physical education	Z	0

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2024-05-13, time 19:02.