Study plan

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

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

DDAD45 Decheles thesis	
BBAP15 Bachelor thesis Z	15

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:

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, Stanislav Vítek, Ji í Zd nek Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P+2C	Z	Р
B0B01DRN	Differencial Equations and Numerical Analysis Petr Habala, Jakub Rondoš, Jakub Stan k, Daniel Gromada, Josef Dvo ák Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Р
A8B01DMG	Discrete Math.& Graphs Marie Demlová Marie Demlová (Gar.)	Z,ZK	5	3P+1S	Z	Р
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 Jakub Rondoš, Ji í Velebil Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Р
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, Hana Tur inová Martin Bohata Martin Bohata (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01MCM	Mathematics-Calculus m-D Martin Bohata, 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	Р
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 Kate ina Helisová Petr Hájek (Gar.)	Z,ZK	7	4P+2S	Z	Р

DUDUIFSI	Kate ina Helisová Kate ina Helisová Petr Hájek (Gar.)	Z,ZN	/	46+23		P P
Characteristics o	f the courses of this group of Study Plan: Code=2020_BOESP Nan	ne=Compulso	ory subj	ects of th	e progra	amme
A8B14ADP	Algorithm Development and Programming	•			,ZK	5
-	duction to algorithm design of basic and more advanced computer tasks, Digital computer s	structure, Introduc	tion to the (1		_
semantics. Basic skills	of procedural programming paradigm, variable, data type, declaration, operators, expression	ns, statements, fu	ınctions, pa	rameter pas	sing, array	s, pointers,
structures, compilation	and debugging methods, preprocessor, conditional compilation, standard libraries, specific	of embedded cor	nputer syst	ems program	ming and	debugging.
B0B01DRN	Differencial Equations and Numerical Analysis			Z	Z,ZK	4
This course introduces	students to the classical theory of ordinary differential equations (separable and linear ODE	s) and also to bsid	cs of numer	ical methods	(errors in	calculations and
stability, numerical solu	utions of algebraic and differential equations and their systems). The course takes advantag	e of the synnergy	between th	eoretical and	d practical	point of view.
A8B01DMG	Discrete Math.& Graphs			Z	Z,ZK	5
The course introduces	basic notions from discrete mathematics directed to those topics useful for electrical engine	eering studies. The	e content of	the course of	covers: infi	nite sets with
emphasis to cardianlity	γ of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers	, relation modulo	n'; basic alg	jebraic struct	ures (inclu	din finite fields
of characteristic 2). Fu	rher the course contains basic notions and their applications from graph theory.					
B2B02FY1	Physics 1			Z	z,ZK	8
The basic course of ph	ysics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into t	wo important area	as of physic	s. The first or	ne is a clas	sical mechanics
	the electric and magnetic field. Within the framework of the classical mechanics, the students					
·	rigid bodies. The students should be able to solve basic problems dealing with the description			•		•
	mechanics is followed by the relativistic mechanics, electric and magnetic field - both station	•				•
	udy of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this	s, the knowledge g	ained in thi	s course is re	equired for	the study of the
consecutive course Ph					. =	
B2B02FY2	Physics 2			1	.,ZK	7
•	is closely linked with the course Physics 1. Within the framework of this course the students				•	• .
•	will give to the students basic insight into the properties of waves and will help to the stude spite of the waves character. Particular types of waves, such as acoustic or optical waves ar		•			
	mplete the student?s general education in physics. The knowledge gained in this course wil	•		-		
	curing technique and will allow them to understand the principles of novel technologies and	•			Jeili aleas	as robotics,
A8B01LAG	Linear Algebra	iditodoriii ig or riovi	CIOCUTOTIIC		,ZK	7
	Lifteal Algebia oductory topics of linear algebra. The main focus is on the related notions of linear spaces and	l linear transforma	tions (linear			
	nants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving		•	•		
product and cross product	11 0 0 7 11	o, o. o o a.	0444410110,	900	opaco (iolaanig aot
A8B01MC1	Mathematics-Calculus1			7	,ZK	7
	is to introduce students to basics of differential and integral calculus of functions of one vari	able.		-	-,2-1	•
A8B01MCT	Mathematics-Complex Variable and Integral Transforms			Z	,ZK	7
A8B01MCM	Mathematics-Calculus m-D				.ZK	7
	introduction to the differential and integral calculus in several variables and basic relations by	oetween curve and	d surface in		, I	•
•	s with application to Taylor and Fourier series.			U =		
A8B01AMA	Advanced Matrix Analysis			7	,ZK	4
	vanced topics of linear algebra, in particular matrix factorizations and construction of matrix	functions.		1 -	-,	•

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:

Со		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
В0	B04B2Z	English language B2 - exam Markéta Havlí ková, Dana Saláková, Petra Juna Jennings, Michael Ynsua 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=2020_BOESZAJ Name=Exam from the english language

B0B04B2Z English language B2 - exam Z,ZK

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 to 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 group:

Note on the gr	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
A8B31AAC	Analog and Active Circuits Ji í Hospodka Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	6	3P+2S	Z	РО
A8B37DCMA	Digital Communications Jan Sýkora Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	3P+1C	Z	РО
A8B37DIT	Digital Design Petr Skalický Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P+2C	L	РО
A8B32DSP	Digital Signal Processing Pavel Zahradník, Boris Šimák Boris Šimák Pavel Zahradník (Gar.)	Z,ZK	5	3P + 1L	Z	РО
A8B17EFC	Electrical Field and Circuits Zbyn k Škvor, Radoslav Bortel Zbyn k Škvor Zbyn k Škvor (Gar.)	KZ	4	2P+1S	L	РО
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	РО
A8B34EOD	Electronic and Optoelectronic Devices Pavel Hazdra Pavel Hazdra (Gar.)	Z,ZK	6	3P+2L	Z	РО
A8B34SST	Solid State Physics Jan Voves Jan Voves (Gar.)	Z,ZK	4	3P+1C	L	РО
A8B17CAS	Computer Algebra Systems (CAS) 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	РО
A8B37SAS	Signals and Systems Jan Sýkora, Pavel Puri er, Karel Fliegel Karel Fliegel Jan Sýkora (Gar.)	Z,ZK	8	4P+2C	L	РО

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	РО
A8B17EMTA	Electromagnetic Field Theory Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	7	4P+2S	Z	РО
A8B31CIR	Circuit Theory Ji í Hospodka Ivan Zemánek Ivan Zemánek (Gar.)	Z,ZK	8	4P+2S	L	РО
A8B32IES	Introduction to Electronic Systems Stanislav Vítek, Ji í Hospodka, Jan Sýkora, 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	РО

A8B37SSP		Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	PO
Characteristics of	of the	courses of this group of Study Plan: Code=2020_BOESPO Na	me=Compul	sory sub	jects of t	he branch	า
A8B31AAC	Ana	log and Active Circuits			Z	,ZK	6
The subject AE8B31A	AAC is o	riented on presentation, matematical description, analysis and sythesis of basic analogous	ogue active circuit	s and funct	ion blocks of	electronic sy	stems based
on basic semiconducto	tor electr	onic components operating in linear and non-linear modes.					
A8B37DCMA	Digi	tal Communications			Z	,ZK	6
The course provides for	fundame	entals of digital communications theory: modulation, classical coding, channel models	, and basic princi	ples of deco	oding. The ex	position is sy	stematically
built along the theoreti	tical lines	s which allow to reveal all inner connections and principles. This allows students to de	evelop the knowle	dge and us	e it in an acti	ve way in a d	lesign and
construction of the cor	mmunic	ation systems. The course provides a necessary fundamental background for subseq	uent more advan	ced commu	inications the	eory courses.	
A8B37DIT	Digi	tal Design			Z	,ZK	5
1 -		troduce the philosophy of digital circuits' design, to provide formal description of comb		_			
		lescription, as well as minimization algorithms for output and transient functions of dig					
elements, finite-state I	Mealy a	nd Moore machines are the essential part of the content. The subject matter discusse	ed will be tested o	n the typica	al design of d	ligital circuits.	
A8B32DSP	Digi	tal Signal Processing			Z	,ZK	5
This subject is focused	ed upon b	pasics in the digital signal processing, systems and methods for digital signal process	sing.				
A8B17EFC	Elec	ctrical Field and Circuits				KZ	4
A8B17ELD	Elec	etrodynamics			Z	,ZK	5
The course AEB17ELI		rodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory).	The course starts	with a deco		· .	netic field into
planewaves, introduce	es radiat	ion of waves and guides student through the interaction of electromagnetic waves with	th material bound	aries. The tl	heory of wav	e guides and	transmission
lines is also shown. Th	he cours	e ends with wave scattering. The knowledge gained in this course is needed for num	ber of specialized	master co	urses.		
A8B38EME	Elec	ctronic Measurements				KZ	4
The course is focused t	to metro	logy fundamentals and uncertainty apparatus. It explains both elementary principles and	selected advance	ed methods	1	ı	mmunications
and radio communicat	itions.						
A8B34EOD	Elec	ctronic and Optoelectronic Devices			Z	Z,ZK	6
This course introduces		sic theory, principles of operation and properties of electronic and optoelectronic dev	ices. Physical prir	nciples of or			_
characteristics are exp	plained t	ogether with adequate models for small- and large-signal. Basic applications in analogous	gue and digital e	lectronics a	re examined	. In seminars	and labs,
	•	sic principles of device simulation, measurement of device characteristics and extracti	-				
systems is then analyz	zed usin	g the PSpice simulator.	•	·			
A8B34SST	Soli	d State Physics			Z	,ZK	4
		tate physics including some parts of statistical physics. The subject informs about basic p	properties of mate	rials used in	1	· .	niconductors.
A8B17CAS		nputer Algebra Systems (CAS)	·			Z	2
A8BPROJ2	Proj					Z	2
A8B37SAS		nals and Systems			7	Z,ZK	8
		iais and Systems signal representation in time and frequency domain. Stochastic signals and their paral	motors Elomonto	ry principlo			-
		se for further study focusing on communication, measurement and signal processing		ry principie:	s or arraiog ir	iodulations w	illi lileli iloise
A8B32DNT	_	a Networks Theory	•		7	,ZK	5
		•					
A8B17EMTA		ctromagnetic Field Theory				,ZK	7
		physics fundaments of the electromagnetic theory and with its mathematical descript	-	_		-	
-		upling between time varying fields and it is ends with an introduction to an electroma	-	_	-		needed ioi
		17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors a	ind a number of s	pecialized i			
A8B31CIR		ruit Theory				,ZK	8
		complet systematic presentation of electrical circuit theory. It is based on general phys		•			
	-	ase of electromagnetic field. It defines basic circuit quantities (voltage, current) and ba		-	-		
	•	ented on linear electrical circuit (analogue LTI systems), it presents basic priciples and nt states (modes), respectively. The time domain and frequency domain analysis is st		•	•		
		it states (modes), respectively. The time domain and frequency domain analysis is stated that it is stated that the subject deals with basis of discretizations.	=	=	- GriaraGleriZ	auon is applie	a on circuit
			CIC LIT SYSICITIS II	icoi y.		7	
A8B32IES	1	oduction to Electronic Systems	ividad into asv	l thomas O	tudonta ha:::	Z	2 m this offer
		th syllabus composed of a set of demonstrations and measurements. Its content is d					
· ·	_	. The goal is to complete the missing knowledge and skills which may vary in student	s comming nom	various sch	oois. The fie	a goar is to g	st all idea
about the scope of the						777	
A8B37SSP		istical Signal Processing	0) 1 (()	٥) ٠٠		:,ZK	6
i ne course provides fi	rundame	entals in three main domains of the statistical signal processing: 1) estimation theory,	2) detection theor	y, 3) optima	aı and adapti	ve filtering. T	ne statistical

Name of the block: Elective courses

Minimal number of credits of the block: 8

The role of the block: V

signal processing is a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation, measurement and experiment

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:

Petra Juna Jennings Petra Juna Jennings (Gar.) ACAGEMIC Writing Pinková Jitka Pinková Petra Juna Jennings (Gar.) ACA0804GA Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804KA English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804KA English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804KA English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804CA Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804C2 Czech language 2 Jitka Pinkova Petra Juna Jennings (Gar.) ACA0804CAL Petra Juna Jennings Petra Juna Jennings (Gar.) ACA0804CAL Petra Juna	Credits	its Scope	Semester	Role
Petra Juna Jennings, Jitta Pinková Jitta Pinková Petra Juna Jennings (Gar.) Z	2	2C	L	V
A0B04KA English Conversation 2 Peter Juna Jennings (Gar.) A0B04KA2 English Conversation 2 Peter Juna Jennings (Gar.) A0B04CA2 English Conversation 2 Peter Juna Jennings (Gar.) A0B04CA3 Technical English Course Peter Juna Jennings (Gar.) A0B04CA2 Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04CA2 Czech language 2 Petra Juna Jennings (Gar.) A0B04CA2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04CA2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04CA2 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B16EPD Business economics KZ B0B16EPD Business economics KZ B0B16FIL Philosophy Peter Zamarovský Peter Zamarovský (Gar.) Peter Zamarovský Peter Zamarovský (Gar.) Peter Zamarovský Peter Zamarovský (Gar.) KZ A0B04KF1 Prench conversation 1 Peter Juna Jennings (Gar.) A0B04KF2 Prench Language 1 Petra Juna Jennings (Gar.) A0B04F1 French language 1 Petra Juna Jennings (Gar.) A0B04F2 Prench Language 2 Petra Juna Jennings (Gar.) A0B04F3 Prench Language 2 Petra Juna Jennings (Gar.) A0B04F3 Prench Language 3 Petra Juna Jennings (Gar.) A0B04F4 History of science and technology 1 Marcela Etmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Etmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Etmertová (Gar.) A0B04AP2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04APA Papanese Petra Juna Jennings (Gar.) A0B04APA Papanese Petra Juna Jennings (Gar.) A0B04APA Papanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04APA Papanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04APA German Grammar Petra Juna Jenn	2	2C	Z	V
A0B04KA2 English Conversation 2 Petra Juna Jennings (Gar.) A0B04OA Technical English Course Petra Juna Jennings (Gar.) A0B04C2Z Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04C2L Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04C2L Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04C1N Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Chinese Language 2 Petra Juna Jennings (Gar.) A0B04C1N2 Chinese Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Chinese Language 2 Petra Juna Jennings (Gar.) A0B04C1N2 Chinese Language 2 Petra Juna Jennings (Gar.) A0B04C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Philosophy Petra Juna Jennings (Gar.) B0B16FIL Philosophy Petra Zamarovský Peter Zamarovský (Gar.) B0B16FIL Philosophy Petra Zamarovský Peter Zamarovský (Gar.) A0B04KF1 Petra Zamarovský Petra Juna Jennings (Gar.) A0B04KF2 French conversation 1 Petra Juna Jennings (Gar.) A0B04KF2 French conversation 1 Petra Juna Jennings (Gar.) A0B04F1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B16HTE History of Science Science Svebodová (Gar.) Marcelle Efinertová, Jan Mikleš Marcelle Efinertová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Germa Conversation Petra Juna Je	2	2C	Z,L	V
A0B04OA Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C2Z Czech Ianguage 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04C2L Czech Ianguage 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04C1N Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04C1N2 Chinese Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B06C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B06C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B06C1N2 Petra Juna Jennings Petra Juna Jennings (Gar.) BUSINESS ECONOMICS KZ BUSINESS ECONOMICS BUSINESS ECONOMICS BUSINESS ECONOMICS KZ BUSINESS ECONOMICS KZ BUSINESS ECONOMICS BUSINESS ECONOMICS KZ BUSINESS ECONOMICS KZ BUSINESS ECONOMICS KZ BUSINESS ECONOMICS BUSINESS ECONOMICS KZ BUSINESS ECONOMICS KZ BUSINESS ECONOMICS BUSINESS ECONOMICS KZ BUSINESS ECONOMICS KZ AUBUSINESS ECONOMICS BUSINESS ECONOMICS KZ AUBUSINESS ECONOMICS BUSINESS ECONOMICS BUSINESS ECONOMICS BUSINESS ECONOMICS KZ AUBUSINESS ECONOMICS BUSINESS ECONOMICS ECONOMICS ECONOMICS BUSINESS ECONOMICS ECONOMICS ECONOMICS	2	2C	Z,L	V
A0B04OA	2	2C	Z,L	V
A0B04C2Z	2	2C	Z,L	V
A0B04C2L Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.) A0B04CIN Petra Juna Jennings Petra Juna Jennings (Gar.) Chinese Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04CIN2 Chinese Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) KZ B0B16EPD Business economics KZ B0B16ET1 Ethic 1 Vadimir Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.) Philosophy Petre Zamarovský Peter Zamarovský (Gar.) Philosophy Peter Zamarovský Peter Zamarovský (Gar.) RZ B0B16FIL Philosophy 1 Petre Zamarovský Peter Zamarovský (Gar.) KZ B0B16FI1 Philosophy 1 Petre Zamarovský Peter Zamarovský (Gar.) KZ A0B04KF1 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KF2 French Language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04F1 French Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04F2 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) Z B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) KZ B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HT1 History 1 Milena Josefovi ová Milena Josefovi ová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation 2 Z A0B04KN2 German Conversation 2	2	2C	Z	V
A0B04CIN Petra Juna Jennings Petra Juna Jennings (Gar.) Chinese Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) RZ A0B16EPD Business economics KZ B0B16ET1 Ethic 1 Vladimir Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.) B0B16FIL Philosophy Peter Zamarovský Peter Zamarovský (Gar.) Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.) RZ A0B04KF1 Prench conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KF2 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F2 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04F3 French Language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) History of technology and economic Marcela Elmertová, Jan Mikes Marcela Elmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Elmertová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) KZ A0B04JAP A	2	2C	L	V
Petra Juna Jennings Petra Juna Jennings (Gar.) BUB16ET1 Ethic 1 Vladimir Sláme ka Vladimir Sláme ka Vladimir Sláme ka (Gar.) Philosophy Petra Zamarovský Peter Zamarovský (Gar.) BUB16FIL Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.) RZ BUB16FII Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.) RZ AUB04KF1 Prench conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) AUB04KF2 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04F1 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04F2 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) Erench Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) Erench Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) EV BUB16HTE History of technology and economic Marcela Elmertová (Gar.) History of science and technology 1 Marcela Elmertová, Jan Mikeš Marcela Elmertová (Gar.) EV BUB16HT1 History 1 Marcela Elmertová, Jan Mikeš Marcela Elmertová (Gar.) EV AUB04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04JAP Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04JAP AUB04JAP Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z AUB04KN German Conversation 2 Z	2	2C	*	V
A0B16EPD Business economics KZ B0B16ET1 Ethic 1 Vladimir Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.) B0B16FIL Philosophy Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.) B0B16FII Philosophy 1 Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.) RZ A0B04KF1 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KF2 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) ROB04F1 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) ROB04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) RZ A0B04F3 Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) KZ B0B16HTE History of technology and economic Marcela Efmertová (Gar.) History of science and technology 1 Marcela Efmertová, Jan Mikes Marcela Efmertová Marcela Efmertová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) KZ A0B04JAP Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings (Gar.) Z A0B04KN German Conversation 2	2	2C	Z,L	V
Viadimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.) XZ	4	2+2s	Z,L	V
Philosophy Peter Zamarovský Peter Zamarovský (Gar.) ZK	4	2P+20	C Z	V
B0B16FI1 Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.) A0B04KF1 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KF2 French Conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F1 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F2 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodova Lucie Svobodová (Gar.) History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová (Marcela Efmertová (Gar.) History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16H11 History 1 Milena Josefovi ová Milena Josefovi ová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2 German conversation 2 German conversation 2	2	2P+0\$	6 Z,L	V
A0B04KF1 French conversation 1	4	2P+28	6 Z	V
A0B04KF2 French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F1 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F2 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) KZ B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) CZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) CZ A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	2	2C	*	V
A0B04F1 French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F2 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) B0B16HTE History of technology and economic Marcela Elmertová, Jan Mikeš Marcela Elmertová Marcela Elmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Elmertová, Jan Mikeš Marcela Elmertová Marcela Elmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics CZ,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	2	2C	*	V
A0B04F2 French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04F3 French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) KZ B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics CZK A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German Conversation 2	2	2C	*	V
French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová (Gar.) KZ B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.) KZ B0B16HT1 History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	2	2C	*	V
B0B39GRT Graphical Design Lucie Svobodová Lucie Svobodová Lucie Svobodová (Gar.) B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) B0B16HT1 History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ MB0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	2	2C	*	V
B0B16HTE History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) Cerman Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Cerman Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Cerman Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Cerman Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	5	2P+28	3 Z,L	V
B0B16HT1 History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.) KZ B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) KZ A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	2	2P+08	3 Z,L	V
B0B16HI1 History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	4	2P+28	3 Z	V
A0B04JAP Japanese Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) Z,ZK A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	4	2P+28	3 Z	V
A0B04JAP2 Japanese 2 Petra Juna Jennings Petra Juna Jennings (Gar.) A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) CGerman Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KN German conversation 2 German conversation 2	2	2C	*	V
A1B16MME Macro and Microeconomics Z,ZK B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) CA0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) CA0B04KN2 German conversation 2	2	2C	*	V
B0B16MPS Psychology Jan Fiala Jan Fiala (Gar.) A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Capernan Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Capernan Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	5	2+2s	Z	V
A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) Z A0B04KN2 German conversation 2	4	2P+25		V
A0B04KN German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04KN2 German conversation 2 7	2	2C	Z,L	V
AORO4KN2 German conversation 2 7	2	2C	Z,L	V
	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings (Gar.) A0B04N1 German language 1 Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings (Gar.)	2	2C	*	V

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A0B04N3	German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04ON	Professional German Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	٧
BE9M04PRE	Presentation Skills Petra Juna Jennings, Erik Peter Stadnik Petra Juna Jennings Petra Juna Jennings (Gar.)	KZ	2	2C	Z	V
B6B04PRE	Presentation Petra Juna Jennings, Jitka Pinková Jitka Pinková Petra Juna Jennings (Gar.)	KZ	3	1P+1C	Z	V
A0B16PRS	Presentation skills	Z	2	2s	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
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
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
A0B04KS2	Spanish conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S1	Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S2	Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S3	Spanish language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04CA	Technical English for Pre-Intermediate Dana Saláková	Z	2	2C	L	V
A003TV	Physical Education Ji i Drnek	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

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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 academically (in English). This course is not simply an opportunity for students who have registered to have someone (the instructor) simply proofread 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	r-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 Eng	lish 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	s to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. T	he course is mea	nt mainly as a		
supplement for students	supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.				
A0B04KA	English Conversation 2	Z	2		
The course is designed for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they already know, as well as learn					
new words and phrases	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	
The course is designed	for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary the	y already know, a	is 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 On	e course, building	on the skills	
-	er, attending Conversation One is not a pre-requisite. This course is not designed for beginners.			
A0B04OA	Technical English Course	Z	2	
_	for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare st			
	matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English short explanatory article, and a research article.	and practicing via	3 different types	
A0B04C2Z	Czech language 2	Z	2	
	oreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical un		2	
A0B04C2L	Czech language 2	7	2	
	foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical un	_		
A0B04CIN	stagn stagents stage in Second, it is not sorted by another interesting the stage and state to insert the necessity of second and	Z	2	
A0B04CIN2	Chinese Language 2	Z	2	
A0B16EPD	Business economics	KZ	4	
-	Business economics seconomics seconomics (see list is Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see list		•	
	ne course is to show Business Economics in its complexity. The course is focused on more practical questions than a plain th			
	e practical examples. Own business plan is prepared by each student as a semestra project. The business plan plays a key ro	-		
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	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 communa	l answers.		
B0B16FIL	Philosophy	ZK	2	
	mportant persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy.	sophy and connec	ction of old	
philosophical thoughts v	with recent problems of science, technology, economics and politics.			
B0B16FI1	Philosophy 1	KZ	4	
	mportant persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy.	sophy and connec	ction of old	
	with recent problems of science, technology, economics and politics.	_		
A0B04KF1	French conversation 1	<u>Z</u>	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	cuments and han	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	Japanese 2	Z	2	
A1B16MME	Macro and Microeconomics	Z,ZK	5	
Basic economic terms, r	market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, p		or, cost, revenue,	
· · · · · · · · · · · · · · · · · · ·	onopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary	policy, labor marl	ket, business	
	gn trade policy, comparative advantage, CR and EU, Euro.			
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	
	course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will be			
key stages of giving pre	sentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate the	eir thoughts and id	deas in a logical	
and structured order - a	nd in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation	of presenting idea	as; throughout	
this course students wil	practice skills that will enable them to become better speakers and presenters.			
B6B04PRE	Presentation	KZ	3	
A0B16PRS	Presentation skills	Z	2	
· ·	epare and to do presentation. They will obtain skills how to prepare written documents using typographic principles and prop	er way of citation	and referencing.	
	heoretical 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	-		
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 and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce				
texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English				
	who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries.	-	_	
	ke CAE at British Council.	•	,	

A0B04CAE2	Certificate of Advanced English CAE 2	Z	2			
	s to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers	units 5-8. Studyin	g for CAE helps			
you to improve your lang	guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bas	ed on realistic tas	ks and indicates			
the ability to use the lan	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be a	able to understand	and produce			
texts of various types. C	AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course	s taught and asse	essed in English			
as well as by employers	who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countrie	s. It is possible bι	ut 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 is	to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers u	ınit 9 - 12. Studyin	ig for CAE helps			
you to improve your lan	guage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.					
A0B04FCE1	FCE 1	Z	2			
	students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur					
	oving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtair	ning the required s	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 Eur	opean Language	Frame. The			
•	oving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtair	ning the required s	skills needed for			
B2 ELF.						
A0B04FCE4	FCE4	Z	2			
	students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur					
•	oving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain	ing the required s	skills needed for			
B2 ELF.						
A0B04FCE3	FCE 3	Z	2			
	students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Cor	•				
	es (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic	s - and is submitte	ed to the goal of			
	kills needed for B2 CEFR.		_			
A0B04PZP	Preparation for stay in Germany	Z	2			
B0B16MPL	Psychology for managers	ZK	2			
A0B04RET	Rhetoric	Z	2			
	ject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of		-			
•	will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychol	ogical barriers for	public speaking			
	n create a good image. The course "Retorika" provides an introduction to this subject.					
A0B04KR2	Russian conversation 2	Z	2			
A0B04R1	Russian language 1	Z	2			
A0B04R2	Russian language 2	Z	2			
A0B04R3	Russian language 3	Z	2			
A0B04R4	Russian language 3	Z	2			
A0B04KS1	Spanish conversation 1	Z	2			
A0B04KS2	Spanish conversation 2	Z	2			
A0B04S1	Spanish language 1	Z	2			
A0B04S2	Spanish language 2	Z	2			
A0B04S3	Spanish language 3	Z	2			
A0B04S4	Spanish Language 4	Z	2			

Code of the group: BTV

A0B04CA A003TV

Name of the group: Physical education

Physical Education

Technical English for Pre-Intermediate

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
TVV	Physical education	Z	0	0+2	Z,L	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V

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

	and or the courses or time group or orang reason and are reason reasons.		
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

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:

~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

List of courses of this pass:

Code	Name of the course	Completion	Credits		
A003TV	Physical Education	Z	2		
A0B04C2L	Czech language 2	Z	2		
The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students.			nts.		
A0B04C2Z	Czech language 2	Z	2		
The cours	The course is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technical university students				
A0B04CA	Technical English for Pre-Intermediate	Z	2		
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2		
The star of the control	Floring 64b and in the control of Advanced Figure 6 Advanced Figur				

The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers units 1-4. Studying for 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 and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council.

A0B04CAE2 Certificate of Advanced English CAE 2

The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers units 5-8. Studying for 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 and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but 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 Ζ 2 The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit 9 - 12. Studying for 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.

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	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 European Language Frame. The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining the required skills needed for

A0B04FCE2	FCE 2	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		
course focuses on	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining	the required skills	s needed for
100015050	B2 ELF.	_	
A0B04FCE3	FCE 3	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Comm	•	
Reference for Lang	guages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - obtaining the required skills needed for B2 CEFR.	and is submitted to	tne goal of
A0004E0E4	FCE4	Z	2
A0B04FCE4	rc=4 ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	_	
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining		
course rocuses on	B2 ELF.	ino required skills	niccaca ioi
A0B04GA	·	Z	2
	ı urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The	_	
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract		,
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04JAP2	Japanese 2	Z	2
A0B04KA	English Conversation 2	Z	2
	igned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a		
	new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.	, , , , ,	
A0B04KA2	English Conversation 2	Z	2
	igned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a		
	hrases, to communicate on a variety of topics and themes. The course is generally designed as a follow-up to the Conversation One	-	
	presented there; however, attending Conversation One is not a pre-requisite. This course is not designed for beginners.		
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		Z	2
	Spanish conversation 2	Z	
A0B04N1	German language 1		2
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04OA	Technical English Course	Z	2
	gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude		
about technical sub	epiect matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article.	practicing via 3 di	rierent types
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
	he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of th		
bachelors. This sub	ject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologic	cal barriers for pub	lic speaking
	so that the students can create a good image. The course "Retorika" provides an introduction to this subject.		_
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0B16EPD	Business economics	KZ	4
Basic course of Bus	siness Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see list of to	opics below), and r	elationships
between them. Aim	of the course is to show Business Economics in its complexity. The course is focused on more practical questions than a plain theory	y. General conclus	ions of each
sub-topic follow cor	ncrete practical examples. Own business plan is prepared by each student as a semestra project. The business plan plays a key role for	or exam result of e	ach student.
A0B16PRS	Presentation skills	Z	2
Students will learn	to prepare and to do presentation. They will obtain skills how to prepare written documents using typographic principles and proper v	-	referencing.
	They will prove gained theoretical knowledge on self prepared interactive presentation that is recorded on video and discuss		
A1B16MME	Macro and Microeconomics	Z,ZK	5
	ms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod		
protit, market failt	ure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary p	olicy, labor market	, business
ΛΟDΩ4 Λ N 4 Λ	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.	フフレ	1
A8B01AMA	Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions	Z,ZK	4
	The section correspond to the section of the sectio	•	

A8B01DMG			
	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 col		
emphasis to cardia	nlity 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.	tructures (includin	finite fields
A8B01LAG	Linear Algebra	Z,ZK	7
	ntroductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear independerminants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geome		´
and matrices (der	product and cross product).	illy III II-space (IIIc	idding dot
A8B01MC1	Mathematics-Calculus1	Z,ZK	7
A O D O A NA C NA	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	7 71/	7
A8B01MCM	Mathematics-Calculus m-D san introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals.	Z,ZK	7
The Subject cover	series and power series with application to Taylor and Fourier series.	Other part contain	is fulletion
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
	ntroduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C progra		-
	skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter		
`	lation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr		
A8B17CAS	Computer Algebra Systems (CAS)	Z	2
A8B17EFC A8B17ELD	Electrical Field and Circuits	KZ Z,ZK	5
	Electrodynamics ELD (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition	'	
	ices 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		
A8B31AAC	sequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize		6
	Analog and Active Circuits 1AAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block	Z,ZK	
	on basic semiconductor electronic components operating in linear and non-linear modes.		
A8B31CIR	Circuit Theory	Z,ZK	8
-	1CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects,		-
	ationary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds		
, ,	ifically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and anal and transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? charac	•	
working in steady t	and transfert states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. Cystem: characteristics		id on circuit 1
	transfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems		d on circuit
A8B32DNT	transfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems Data Networks Theory		
	Data Networks Theory	s theory.	5 5
A8B32DNT A8B32DSP		s theory.	5
	Data Networks Theory Digital Signal Processing	s theory.	5
A8B32DSP A8B32IES This is a motivation	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems n subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students	z,ZK z,ZK Z,ZK Z	5 5 2 m this offer
A8B32DSP A8B32IES This is a motivation	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The	z,ZK z,ZK Z,ZK Z	5 5 2 m this offer
A8B32DSP A8B32IES This is a motivation based on their presentation	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme.	z,ZK z,ZK Z,ZK Z have a choice from the next goal is to g	5 5 2 m this offer let an idea
A8B32DSP A8B32IES This is a motivation based on their presentation based on the presentation based on t	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices	z,ZK Z,ZK Z,ZK Z have a choice from ne next goal is to g	5 5 2 m this offer let an idea
A8B32DSP A8B32IES This is a motivation based on their presentation based on the presentation based	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme.	z,ZK Z,ZK Z,ZK z have a choice from ne next goal is to goal is goal i	5 5 2 m this offer get an idea 6 pres and
A8B32DSP A8B32IES This is a motivation based on their pre A8B34EOD This course intricharacteristics are	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of	z,ZK Z,ZK Z,ZK Anave a choice from ne next goal is to goal is g	5 5 2 m this offer get an idea 6 ures and sand labs,
A8B32DSP A8B32IES This is a motivation based on their pre A8B34EOD This course introduced are students are introduced.	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operate explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of systems is then analyzed using the PSpice simulator.	z,ZK Z,ZK Z,ZK Anave a choice from ne next goal is to goal is	5 2 m this offer get an idea 6 pres and sand labs, in electronic
A8B32DSP A8B32IES This is a motivation based on their prescripts are introduced by the course introduced by the characteristics are students are introduced by the course	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of systems is then analyzed using the PSpice simulator. Solid State Physics	z,ZK Z,ZK Z have a choice from the next goal is to go a structumined. In seminars of electron devices Z,ZK	5 2 m this offer ret an idea 6 rres and and labs, in electronic
A8B32DSP A8B32IES This is a motivation based on their prescripts are introduced and the course	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation are explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of systems is then analyzed using the PSpice simulator. Solid State Physics I on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electronic and processing.	z,ZK z,ZK z,ZK z have a choice from the next goal is to go to the control of the	5 5 2 m this offer let an idea 6 let an idea 6 let and labs, in electronic 4 iconductors.
A8B32DSP A8B32IES This is a motivation based on their present the source into characteristics are students are introduction. A8B34SST The subject is aimed A8B37DCMA	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation are explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of systems is then analyzed using the PSpice simulator. Solid State Physics I on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electronic Digital Communications	z,ZK Z,ZK Z have a choice frome next goal is to go Z,ZK tion, device structumined. In seminars felectron devices Z,ZK ics, esp. about sem Z,ZK	5 5 2 m this offer let an idea 6 let an idea 6 let and labs, in electronic 4 iconductors. 6
A8B32DSP A8B32IES This is a motivation based on their presentation based on the presentation based on the presentation based on the presentation based on their presentat	Data Networks Theory Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems In subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students e-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The about the scope of the OES programme. Electronic and Optoelectronic Devices oduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation are explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exampled to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of systems is then analyzed using the PSpice simulator. Solid State Physics I on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electronic Digital Communications is fundamentals of digital communications theory: modulation, classical coding, channel models, and basic principles of decoding. Tr	z,ZK z,ZK z,ZK z,A have a choice from the next goal is to go a control of the next goal is to go a control of the next goal is to go a control of the next goal is to go a control of the next goal is to go a control of the next goal is to go a control of the next goal of the nex	5 5 2 m this offer let an idea 6 let an idea 6 let and labs, in electronic 4 liconductors. 6 stematically
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B0B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	4			
This course introdu	ices students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth		ulations and			
stability, numerica	al solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical	al and practical po	int of view.			
B0B01PST	Probability and Statistics	Z,ZK	7			
B0B04B2Z	English language B2 - exam	Z,ZK	0			
I) The B2 English E	exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Students	dy and Examinatio	n Rules and			
"	dents at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully com		•			
addition, this require	es 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 Euro	pean Framework o	f Reference			
	EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2					
	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					
1	ntaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed to	_	-			
	vpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an	• •				
within the past live	years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are then Test and the Oral Part. For a list of approved international exams go to the department website: http://jazyky.fel.cvut.cz/	ir exempt nom bott	i tile wiltteri			
B0B16ET1	Ethic 1	KZ	4			
	Etriic is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ		-			
1	f the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co		ie. Loseillai			
B0B16FI1	Philosophy 1	KZ	4			
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	· · · · · · · · · · · · · · · · · · ·	- I			
vve dear with the	philosophical thoughts with recent problems of science, technology, economics and politics.	opriy and connect	on or old			
B0B16FIL	Philosophy	ZK	2			
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos					
vve dear with the	philosophical thoughts with recent problems of science, technology, economics and politics.	opriy and connect	on or old			
B0B16HI1	History 1	KZ	4			
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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			
The course gran	nts an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical doc	cuments and hand	drawing.			
B2B02FY1	Physics 1	Z,ZK	8			
The basic course of	f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first	st one is a classica	l mechanics			
and the second one	e is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamic	cs of the mass part	icle, system			
1	and 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		-			
in this course in the	e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course	is required for the	study of the			
DODOOE)/O	consecutive course Physics 2.	7.71/	-			
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	•	• .			
_	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 the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section	•				
	vill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of suc					
	nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec		,			
B3B04PSA	Academic Writing	KZ	2			
	ed course in which students learn how or improve their ability to correctly and effectively formulate common written documents such a					
,	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			
	TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to imp					
	academically (in English). This course is not simply an opportunity for students who have registered to have someone (the instructor)					
1	imate 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 is					
	Jpper-Intermediate), it is the student's responsibility to take action to improve it (outside of this course). It is hoped that by working and					
	basis throughout this course that participants will, naturally, improve their level of English in one way or another.					
BE9M04PRE	Presentation Skills	KZ	2			
	this course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will be tal	ken systematically	through the			
key stages of givin	g presentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate their t	houghts and ideas	in a logical			
and structured or	der - and in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation of	presenting ideas;	throughout			
	this course students will practice skills that will enable them to become better speakers and presenters.					
BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0			
1 ' '	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation		-			
	amentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	-				
BEZZ	Basic Health and Occupational Safety Regulations	Z	0			
_	e worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech					
which was provide	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	ealth and Occupati	onal Safety			
 \(\)\(\)	regulations forms an integral and permanent part of qualification requirements. This program is obligatory.	_				
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
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For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2025-08-01, time 01:19.