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: 181
Elective courses credits: -1
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: 82

The role of the block: P

Code of the group: BOESBAP

Name of the group: Bachelor Thesis

Requirement credits in the group: In this group you have to gain at least 9 credits (at most 144)

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

Credits in the group: 9
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
A8B14BAP	Bachelor thesis	Z	9	7s	L	Р
A8B15BAP	Bachelor thesis	Z	9	7s	L	Р
A8B16BAP	Bachelor thesis	Z	9	7s	Z,L	Р
A8B17BAP	Bachelor thesis	Z	9	78	L	Р
A8B31BAP	Bachelor thesis	Z	9	7ZP	L	Р
A8B33BAP	Bachelor thesis	Z	9	78	L	Р
A8B34BAP	Bachelor thesis	Z	9	7C	L	Р
A8B35BAP	Bachelor thesis	Z	9	78	L	Р
A8B36BAP	Bachelor thesis	Z	9	7s	L,Z	Р
A8B37BAP	Bachelor thesis	Z	9	7s	L	Р
A8B38BAP	Bachelor thesis	Z	9	0P+7C	L	Р
A8B39BAP	Bachelor thesis	Z	9	78	L	Р
ABAP9	Bachelor thesis	Z	9	28s	L	Р

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

A8B14BAP	Bachelor thesis	Z	9
A8B15BAP	Bachelor thesis	Z	9
A8B16BAP	Bachelor thesis	Z	9
A8B17BAP	Bachelor thesis	Z	9

Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination. Bachelor, s projects are oriented into microwave technique, antennas, propagation, optoelectronics, EMC, medical applications.

A8B31BAP	Bachelor thesis	Z	9		
A8B33BAP	Bachelor thesis	Z	9		
A8B34BAP	Bachelor thesis	Z	9		
Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified					

Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination.

A8B35BAP B	Bachelor thesis	2	<u> </u>	9	
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A8B36BAP	Bachelor thesis	Z	9				
Independent final project	Independent final project for the Bachelor's degree study program. Student will choose a topic from a range of topics related to his or her branch of study that will be specified by branch						
department or branch of	lepartments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examinati	on.					
A8B37BAP	Bachelor thesis	Z	9				
Independent final proje	ct for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branc	h of study, which	will be specified				
by branch department of	or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final	examination.					
A8B38BAP	Bachelor thesis	Z	9				
Independent final project for the Bachelor's degree study program. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by							
branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination.							
A8B39BAP	Bachelor thesis	Z	9				
ABAP9	Bachelor thesis	Z	9				

Code of the group: 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=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	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: BOESP

Name of the group: Compulsory subjects of the programme

Requirement credits in the group: In this group you have to gain 73 credits

Requirement courses in the group: In this group you have to complete at least 12 courses

Credits in the group: 73 Note on the group:

Note on the g	roup.					
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
A8B01DEN	Differential Equations&Numerical Methods	Z,ZK	7	4P+2C	L	Р
A8B01DMG	Discrete Math.& Graphs Marie Demlová Marie Demlová (Gar.)	Z,ZK	5	3P+1S	Z	Р
A8B02PH1	Physics 1	Z,ZK	7	4P+2L	L	Р
A8B02PH2	Physics 2	Z,ZK	7	4P+2L	Z	Р
A8B01LAG	Linear Algebra Ji í Velebil, Josef Dvo ák, Mat j Dostál, Karel Pospíšil Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01MC1	Mathematics-Calculus1 Martin K epela, Josef Tkadlec Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01MCT	Mathematics-Complex Variable and Integral Transforms 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	Р

A8B01OGT	Optimization and Game Theory Martin Bohata Martin Bohata Martin Bohata (Gar.)	Z,ZK	4	3P+1S	L	Р
A8B01PSI	Probability, Statistics and Information Theory	Z,ZK	6	4P+2S	Z	Р

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

A8B14ADP Algorithm Development and Programming

Z.ZK

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Course objective: Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C programming language, Syntax and semantics. Basic skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter passing, arrays, pointers, structures, compilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems programming and debugging.

A8B01DEN Differential Equations&Numerical Methods

Z,ZK

7

This course offers an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduces partial differential equations. For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerically.

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 course covers: infinite sets with emphasis to cardianlity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic structures (includin finite fields of characteristic 2). Further the course contains basic notions and their applications from graph theory.

A8B02PH1 Physics 1

Z,ZK

7

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 first one is a classical mechanics and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamics of the mass particle, system of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The 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 is required for the study of the consecutive course Physics 2.

A8B02PH2 Physics 2

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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 phenomenological and statistical 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 presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or electromagnetic waves are the subjects of the following section. Quantum mechanics physics will complete the student's general education in physics. The knowledge gained in this course will help to the students in study of modern technical areas encountered during their studies and will allow them to understand the principles of novel technologies and functioning of new electronic devices.

A8B01LAG Linear Algebra

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This course covers introductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear independence, bases and coordinates) and matrices (determinants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geometry in n-space (including 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 integrals. Other part contains function					
series and power series with application to Taylor and Fourier series.					

A8B01AMA Advanced Matrix Analysis
The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions.

A8B01OGT Optimization and Game Theory

Z,ZK

Z,ZK 4

4

A8B01PSI Probability, Statistics and Information Theory

Z,ZK 6

Basics of probability theory, mathematical statistics, information theory, and coding. Includes descriptions of probability, random variables and their distributions, characteristics and operations with random variables. Basics of mathematical statistics: Point and interval estimates, methods of parameters estimation and hypotheses testing, least squares method. Basic notions and results of the theory of Markov chains. Shannon entropy, mutual and conditional information.

Code of the group: 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	
A0B04B2Z	English language B2-exam Pavla Péterová	Z,ZK	0	OC	Z,L	Р	

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

A0B04B2Z	English language B2-exam	Z,ZK	0
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Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 91

The role of the block: PO

Code of the group: BOESPO

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 91 credits

Requirement courses in the group: In this group you have to complete at least 18 courses

Credits in the group: 91

systems is then analyzed using the PSpice simulator.

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
A8B31AAC	Analog and Active Circuits Jií Hospodka Jií Hospodka Jií Hospodka (Gar.)	Z,ZK	6	3P+2S	Z	РО
A8B37DCM	Digital Communications Jan Sýkora	Z,ZK	5	4P+0C	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 Pavel Zahradník (Gar.)	Z,ZK	5	3P + 1L	Z	РО
A8B17ELD	Electrodynamics Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	5	3P+1S	L	РО
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 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
A8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2	0P + 2C	Z	РО
A8B01CAS	Computer Algebra Systems (CAS)	Z	2	1P+1C	Z	РО
B6B32PSI	Computer Networks Tomáš Van k, Leoš Bohá , Zbyn k Kocur Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	Z	РО
A8B37SAS	Signals and Systems Jan Sýkora, Karel Fliegel, Pavel Puri er Karel Fliegel Jan Sýkora (Gar.)	Z,ZK	8	4P+2C	L	РО
A8B17EMT	Electromagnetic Field Theory Lukáš Jelínek	Z,ZK	8	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 Ji í Hospodka, Stanislav Vítek, Pavel Zahradník, Zbyn k Škvor, Pavel Hazdra, Jan Sýkora Zbyn k Škvor Zbyn k Škvor (Gar.)	Z	2	0P + 2L	Z	РО
A8B31ELE	Elements of Electronics Ivan Zemánek	KZ	4	2P	L	РО
A8B35FCS	Feed-Back Control Systems	Z,ZK	6	4P+2L	L	РО
A8B37SSP	Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	РО

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A8B37SSP	Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	РО
Characteristics of	the courses of this group of Study Plan: Code=BOESPO Name=C	ompulsory s	subjects	of the bra	anch	
A8B31AAC	Analog and Active Circuits			Z	z,ZK	6
•	C is oriented on presentation, matematical description, analysis and sythesis of basic analelectronic components operating in linear and non-linear modes.	ogue active circui	ts and func	tion blocks of	electronic s	ystems base
A8B37DCM	Digital Communications			Z	',ZK	5
The course provides fur	ndamentals of digital communications theory: modulation, classical coding, channel models	, and basic princi	ples of dec		<i>'</i>	ystematically
built along the theoretic	al lines which allow to reveal all inner connections and principles. This allows students to de	evelop the knowle	edge and us	se it in an acti	ive way in a	design and
construction of the com	munication systems. The course provides a necessary fundamental background for subsec	uent more advan	ced commu	unications the	ory courses	
A8B37DIT	Digital Design			Z	.ZK	5
The goal of this course	is to introduce the philosophy of digital circuits' design, to provide formal description of comb	oinational and sec	quential logi	ical circuits, tl	neir functions	al blocks. Bot
•	ional description, as well as minimization algorithms for output and transient functions of di					
elements, finite-state M	ealy and Moore machines are the essential part of the content. The subject matter discusse	ed will be tested o	on the typic	al design of d	ligital circuits	·
A8B32DSP	Digital Signal Processing			Z	',ZK	5
This subject is focused	upon basics in the digital signal processing, systems and methods for digital signal process	sing.		'	,	
A8B17ELD	Electrodynamics			Z	',ZK	5
The course AEB17ELD	(electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory).	The course starts	with a dec	omposition o	f electromag	netic field int
planewaves, introduces	radiation of waves and guides student through the interaction of electromagnetic waves wi	th material bound	laries. The t	heory of wav	e guides and	transmissio
lines is also shown. The	course ends with wave scattering. The knowledge gained in this course is needed for num	ber of specialized	d master co	urses.		
A8B38EME	Electronic Measurements				KZ	4
The course is focused to	metrology fundamentals and uncertainty apparatus. It explains both elementary principles and	d selected advance	ed methods	used in elect	ronics, teleco	mmunication
and radio communication	ons.					
A8B34EOD	Electronic and Optoelectronic Devices			Z	',ZK	6
This course introduces	the basic theory, principles of operation and properties of electronic and optoelectronic dev	ices. Physical pri	nciples of o	peration, dev	ice structure	s and
characteristics are expl	ained together with adequate models for small- and large-signal. Basic applications in analogous	ogue and digital e	electronics a	are examined	. In seminars	and labs,
students are introduced	to basic principles of device simulation, measurement of device characteristics and extract	ion of device para	ameters. Op	eration of ele	ctron device	s in electroni

A8B34SST	Solid State Physics	Z,ZK	4
The subject is aimed or	n solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in elec	ctronics, esp. about	semiconductors.
A8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2
This is a shared practi	cal laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications	(B-DCM) and Data	Network Theory
(B-DNT) courses. It de	emonstrates how these areas together allow designing a complex functional system. During the course, students will design a	set of building blo	cks based on
individual pieces of kn	owledge from the all above stated courses allowing at the end to build complex demonstration signal processing and commu	nication systems. T	he laboratory
uses a computer base	d simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrates	how various CAD a	nd mathematical
SW tools can be used	in designing the system.		
A8B01CAS	Computer Algebra Systems (CAS)	Z	2
Computer algebra sys	tems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter	in subjects Mather	natics and
Introductory Algebra.	Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without (CAS is either difficu	ılt or impossible.
B6B32PSI	Computer Networks	Z,ZK	5
A8B37SAS	Signals and Systems	Z,ZK	8
Continuous and discre	te time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of	analog modulation	s with their noise
conditions. Fundamen	tal course for further study focusing on communication, measurement and signal processing.		
A8B17EMT	Electromagnetic Field Theory	Z,ZK	8
Students get acquaint	ed with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guid	es student through	electrostatics,
magnetostatics, introd	uces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gair	ned in this course a	are needed for
the subsequent course	e AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialized mas	ter courses.	
A8B31CIR	Circuit Theory	Z,ZK	8
The subject AE8B31C	IR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic eff	ects, an electric cir	cuit is presented
as a special quasistati	onary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all	kinds of actual ene	ergy interactions.
The subject is specific	ally oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and	analysis methods	of linear circuits
	transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? ch	aracterization is ap	plied on circuit
	alysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems theory.		
A8B32IES	Introduction to Electronic Systems	Z	2
	bject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Stude		
based on their pre-known	owledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools	. The next goal is to	o get an idea
about the scope of the	OES programme.		
A8B31ELE	Elements of Electronics	KZ	4
The subject AE8B31E	LE (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementa	ry basis of electric	al and electronic
engineering, describes	and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instanc	e AE8B31CIR (B-C	JIR), AE8B31DIT
(B-DIT), AE8B31EMT	(B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical method	ods adequate to the	e 2nd semester
of the bachelor study	stage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory -	signal and system	theory - digital
and microprocessor to	echnique.		
A8B35FCS	Feed-Back Control Systems	Z,ZK	6
Foundation course of	automatic control. Introduction to basic concepts and properties of dynamic systems of physical, engineering, biological, eco	nomics, robotics an	nd informatics
nature. Basic principle	s of feedback and its use as a tool for altering the behavior of systems and managing uncertainty. Classical and modern met	hods for analysis a	nd design of
automatic control syst	ems. Students specialized in systems and control will build on these ideas and knowledge in the advanced courses to follow.	Students of other b	oranches and
programs will find out	that control is a inspiring, ubiquitous and entertaining field worth of a future cooperation.		
AOD27CCD	Ctatistical Cignal Draggasing	フフレ	6

A8B37SSP Statistical Signal Processing

Z.ZK

6

The course provides fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and adaptive filtering. The statistical signal processing is a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation, measurement and experiment evaluation, etc.

Name of the block: Elective courses
Minimal number of credits of the block: 8

The role of the block: V

Code of the group: 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 134)

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.)	KZ	2	2C	L	V
B3B04PSA	Academic Writing Petra Jennings, Jitka Pinková Jitka Pinková Petra Jennings (Gar.)	KZ	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	Z	2	2C	Z,L	V
A0B04C2Z	Petra Jennings Petra Jennings (Gar.) Czech language 2	Z	2	2C	Z	V
	Jitka Pinková Petra Jennings (Gar.) Czech language 2					-
A0B04C2L	Jitka Pinková Petra Jennings (Gar.)	Z	2	2C	L *	V
A0B04CIN	Petra Jennings Petra Jennings (Gar.) Chinese Language 2	Z	2	2C		V
A0B04CIN2	Petra Jennings Petra Jennings (Gar.)	Z	2	2C	Z,L	V
A0B16EPD	Business economics Ethic 1	KZ	4	2+2s	Z,L	V
B0B16ET1	Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	V
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	V
A0B04KF1	French conversation 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F1	French language 1 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F2	French language 2 Petra Jennings Petra Jennings (Gar.)	Z	2	2C	*	V
A0B04F3	French Language 3 Petra Jennings (Gar.)	Z	2	2C	*	V
B0B16HTE	History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1	KZ	4	2P+2S	Z	V
A0B04JAP	Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.) Japanese	Z	2	2C	*	V
A0B04JAP2	Petra Jennings Petra Jennings (Gar.) Japanese 2	Z	2	2C	*	V
A1B16MME	Petra Jennings Petra Jennings (Gar.) 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	Z	2	2C	*	V
A0B04N1	Petra Jennings Petra Jennings (Gar.) German language 1	Z	2	2C	*	V
A0B04N2	Petra Jennings Petra Jennings (Gar.) German language 2	Z	2	2C	*	V
A0B04N3	Petra Jennings Petra Jennings (Gar.) German language 3	Z	2	2C	*	V
A0B04ON	Petra Jennings Petra Jennings (Gar.) Professional German	Z	2	2C	Z,L	V
BE9M04PRE	Petra Jennings Dana Lisá (Gar.) Presentation Skills	KZ	2	2C 2C	Z,L Z	-
	Petra Jennings, Erik Peter Stadnik Petra Jennings Petra Jennings (Gar.) Presentation					V
B6B04PRE	Petra Jennings, Jitka Pinková Jitka Pinková Petra Jennings (Gar.)	KZ	3	1P+1C	Z	V
A0B16PRS	Presentation skills Contificate of Advanced English CAE 1	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 (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 Jitka Pinková	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=BOESHEM Name=Humanities, economically-management subjects Academic Writing 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 English 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 course that participants will, naturally, improve their level of English in one way or another. B3B04PSA Academic Writing Practically focused course in which students learn how or improve their ability to correctly and effectively formulate common written documents such as their own notes, research, reports, protocols, articles, etc. Students will be acquainted with the main principles of writing professional texts. A0B04GA 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 supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice. A0B04KA English Conversation 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, to communicate on a variety of topics and themes. This course is not designed for beginners. A0B04KA2 **English Conversation 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, 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. A0B04OA Technical English Course This course is designed for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare students to be able to communicate 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 short explanatory article, and a research article. 2 A0B04C2Z Czech language 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 A0B04C2L Czech language 2 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. A0B04CIN Ζ 2 Z A0B04CIN2 2 Chinese Language 2 ΚZ **Business economics** Basic course of Business Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see list of topics below), and relationships 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. General conclusions of each sub-topic follow concrete practical examples. Own business plan is prepared by each student as a semestra project. The business plan plays a key role for exam result of each student. B0B16ET1 Ethic 1 K7 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 human 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 communal answers 2 B0B16FIL Philosophy ZK We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics. B0B16FI1 Philosophy 1 K7 4

We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old

philosophical thoughts 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
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
	market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, processes, and processes are processes are processes and processes are processes and processes are processes are processes and processes are processes and processes are processes are processes and processes are processes and processes are processes are processes and processes are processes are processes and processes are		
·	ionopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary ign trade policy, comparative advantage, CR and EU, Euro.	policy, labor mark	ket, business
B0B16MPS	Psychology	Z,ZK	4
A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04N1		Z	2
	German language 1		
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04ON	Professional German	Z	2
BE9M04PRE	Presentation Skills course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will be	KZ	2
	esentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate th		
	and in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation	-	_
	Ill practice skills that will enable them to become better speakers and presenters.	, , , , , ,	,
B6B04PRE	Presentation	KZ	3
A0B16PRS	Presentation skills	Z	2
Students will learn to p	repare and to do presentation. They will obtain skills how to prepare written documents using typographic principles and prop	er way of citation	and referencing.
They will prove gained	theoretical knowledge on self prepared interactive presentation that is recorded on video and discussed.		
A0B04CAE1	Certificate of Advanced English CAE 1 is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers	Z	2
texts of various types.	nguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		a and broduce
1	CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countricate CAE at British Council.	es taught and asse	essed in English
for obtaining credit to t	s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri- ake CAE at British Council.	es taught and asse es. It is possible bu	essed in English ut not necessary
for obtaining credit to to A0B04CAE2	s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries	es taught and asso es. It is possible bu	essed in English ut not necessary 2
for obtaining credit to to AOBO4CAE2 The aim of the course you to improve your lar	s who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries ake CAE at British Council. Certificate of Advanced English CAE 2 is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers guage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based to the countries of th	es taught and asses. It is possible but the ses. It is possible to the s	essed in English ut not necessary 2 g for CAE helps sks and indicates
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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
A0B04CA	Technical English for Pre-Intermediate	Z	2
A003TV	Physical Education	Z	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:

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
A003TV	Physical Education	Z	2	0+2	L,Z	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V

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

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

Code of the group: 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		
A0B04B2Z	English language B2-exam	Z,ZK	0		
A0B04C2L	Czech language 2	Z	2		
	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	1		
A0B04C2Z Czech language 2 Z 2					
	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	·			
A0B04CA	Technical English for Pre-Intermediate	Z Z	2		
A0B04CAE1	Certificate of Advanced English CAE 1 rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni	l	_		
	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based				
	ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab				
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to	-	-		
as well as by emplo	byers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I for obtaining credit to take CAE at British Council.	t is possible but no	t necessary		
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2		
I	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni	_	_		
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		
	ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab		•		
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to	-	-		
as well as by emplo	byers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semeste		it necessary		
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2		
I	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	l	_		
	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	FCE 1	Z	2		
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining				
	B2 ELF.	, ,			
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 i	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		
A0B04FCE3	B2 ELF. FCE 3	Z	2		
	roe 3 led for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Comi	l	_		
	juages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics -	•			
	obtaining the required skills needed for B2 CEFR.		Ü		
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				
course focuses on i	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	the required skills	s needed for		
A0B04GA	DE LLI.	Z	2		
	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	ice.			
A0B04GN	German Grammar	Z	2		
A0B04JAP	Japanese	Z	2		
A0B04JAP2	Japanese 2	Z	2		
A0B04KA	English Conversation 2	Z	2		
The course is design	gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a	already know, as w	ell as learn		
A0D041440	new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.	7			
A0B04KA2	English Conversation 2 gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they	Z already know as w	ell as learn		
	gried 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.		00		
A0B04KF1	French conversation 1	Z	2		
A0B04KF2	French conversation 1	Z	2		
A0B04KN	German Conversation	Z	2		
		1	1		

A0B04KN2 A0B04KR2			
	German conversation 2	Z	2
A ODO 41/C4	Russian conversation 2	Z	2
A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2	Z	2
A0B04N1	German language 1	Z	2
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04OA	Technical English Course	Z	2
This course is design	pned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude	nts to be able to c	ommunicate
about technical sub	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	practicing via 3 di	ifferent types
	of texts: an abstract, a short explanatory article, and a research article.		
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
	he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the		
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	olic 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
	siness Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see list of to	•	
	of the course is to show Business Economics in its complexity. The course is focused on more practical questions than a plain theory		
	ncrete practical examples. Own business plan is prepared by each student as a semestra project. The business plan plays a key role for		1
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 w They will prove gained theoretical knowledge on self prepared interactive presentation that is recorded on video and discusse	-	reterencing.
A A D A CN AN A E	Macro and Microeconomics	Z,ZK	5
A1B16MME	ms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prodi		1
	ure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary po	acci s benavioi, o	ost, revenue,
. ,		olicv. labor marke	t. business
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.	olicy, labor marke	t, business
A8B01AMA	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.		t, business
A8B01AMA		Z,ZK	
A8B01AMA A8B01CAS	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions	Z,ZK	
A8B01CAS	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis	Z,ZK	2
A8B01CAS Computer algeb	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS)	Z,ZK Z subjects Mathem	4 2 natics and
A8B01CAS Computer algeb	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in	Z,ZK Z subjects Mathem	4 2 natics and
A8B01CAS Computer algeb Introductory Algebr A8B01DEN	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in a. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS in the control of the co	Z,ZK Z subjects Mathem s either difficult of	4 2 natics and r impossible.
A8B01CAS Computer algeb Introductory Algebi A8B01DEN This course offers a	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in a. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS in Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical	Z,ZK Subjects Mathem s either difficult of Z,ZK s partial differentially.	2 natics and r impossible. 7 al equations
A8B01CAS Computer algeb Introductory Algebi A8B01DEN This course offers a	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in ra. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS is Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical Discrete Math.& Graphs	Z,ZK Subjects Mathems either difficult of Z,ZK s partial differentially. Z,ZK	4 2 natics and r impossible. 7 al equations
A8B01CAS Computer algeb Introductory Algebi A8B01DEN This course offers a A8B01DMG The course introd	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in a. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS in Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical Discrete Math.& Graphs uces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the c	Z,ZK subjects Mathems either difficult of Z,ZK s partial differentially. Z,ZK urse covers: infinit	2 natics and r impossible. 7 all equations 5 te sets with
A8B01CAS Computer algeb Introductory Algebi A8B01DEN This course offers a A8B01DMG The course introd	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in a. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS in Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical Discrete Math.& Graphs uces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the contantity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic states.	Z,ZK subjects Mathems either difficult of Z,ZK s partial differentially. Z,ZK urse covers: infinit	2 natics and r impossible. 7 all equations 5 te sets with
A8B01CAS Computer algebintroductory Algebintroductory Algebintroductory Algebin A8B01DEN This course offers a A8B01DMG The course introduction and a course of the course introduction and a course intr	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in ra. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS i Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical Discrete Math.& Graphs uces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the countility 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.	Z,ZK subjects Mathems either difficult of Z,ZK s partial differentially. Z,ZK urse covers: infinit	2 patics and r impossible. 7 all equations 5 te sets with a finite fields
A8B01CAS Computer algebintroductory Algebintroductory Algebintroductory Algebin A8B01DEN This course offers a A8B01DMG The course introduction and algebin A8B01LAG	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Computer Algebra Systems (CAS) ra systems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in ra. Seminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS i Differential Equations&Numerical Methods an introduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerical Discrete Math.& Graphs uces basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the countity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic strong of characteristic 2). Furher the course contains basic notions and their applications from graph theory. Linear Algebra	Z,ZK subjects Mathems either difficult of Z,ZK s partial differentially. Z,ZK urse covers: infinit tructures (including Z,ZK)	2 patics and r impossible. 7 all equations 5 te sets with a finite fields
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in this course in the 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 consecutive course Physics 2. A8B02PH2 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 phenomenological and statistical 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 presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or electromagnetic waves are the subjects of the following section. Quantum mechanics physics will complete the student's general education in physics. The knowledge gained in this course will help to the students in study of modern technical areas encountered during their studies and will allow them to understand the principles of novel technologies and functioning of new electronic devices. A8B14ADP Algorithm Development and Programming Course objective: Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C programming language, Syntax and semantics. Basic skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter passing, arrays, pointers, structures, compilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems programming and debugging. A8B14BAP Bachelor thesis 7 9 A8B15BAP 7 9 Bachelor thesis A8B16BAP Bachelor thesis Ζ 9 7 A8B17BAP Bachelor thesis 9 Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination. Bachelor, s projects are oriented into microwave technique, antennas, propagation, optoelectronics, EMC, medical applications. A8B17ELD Electrodynamics Z,ZK 5 The course AEB17ELD (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition of electromagnetic field into planewaves, introduces radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The theory of wave guides and transmission lines is also shown. The course ends with wave scattering. The knowledge gained in this course is needed for number of specialized master courses. A8B17EMT Electromagnetic Field Theory Students get acquainted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides student through electrostatics, magnetostatics, introduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained in this course are needed for the subsequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialized master courses A8B31AAC Analog and Active Circuits The subject AE8B31AAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function blocks of electronic systems based on basic semiconductor electronic components operating in linear and non-linear modes. A8B31BAP Bachelor thesis 9 Z.ZK A8B31CIR Circuit Theory 8 The subject AE8B31CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, an electric circuit is presented as a special quasistationary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds of actual energy interactions. The subject is specifically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and analysis methods of linear circuits working in steady and transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? characterization is applied on circuit transfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems theory. A8B31FLF ΚZ Elements of Electronics The subject AE8B31ELE (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementary basis of electrical and electronic engineering, describes and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instance AE8B31CIR (B-CIR), AE8B31DIT (B-DIT), AE8B31EMT (B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical methods adequate to the 2nd semester of the bachelor study stage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory - signal and system theory - digital and microprocessor technique. A8B32DCL Digital Signal Processing and Communication Laboratory This is a shared practical laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications (B-DCM) and Data Network Theory (B-DNT) courses. It demonstrates how these areas together allow designing a complex functional system. During the course, students will design a set of building blocks based on individual pieces of knowledge from the all above stated courses allowing at the end to build complex demonstration signal processing and communication systems. The laboratory uses a computer based simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrates how various CAD and mathematical SW tools can be used in designing the system. A8B32DSP Digital Signal Processing Z,ZK 5 This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing. Introduction to Electronic Systems 7 A8B32IES 2 This is a motivation subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students have a choice from this offer based on their pre-knowledge. The goal is to complete the missing knowledge and skills which may vary in students comming from various schools. The next goal is to get an idea about the scope of the OES programme. A8B33BAP Bachelor thesis Ζ 9 A8B34BAP Bachelor thesis 9 Independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final examination. A8B34FOD Electronic and Optoelectronic Devices This course introduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operation, device structures and characteristics are explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are examined. In seminars and labs, students are introduced to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of electron devices in electronic systems is then analyzed using the PSpice simulator. A8R34SST Solid State Physics Z,ZK 4 The subject is aimed on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electronics, esp. about semiconductors. A8B35BAP Bachelor thesis 9 A8B35FCS Feed-Back Control Systems Z,ZK 6 Foundation course of automatic control. Introduction to basic concepts and properties of dynamic systems of physical, engineering, biological, economics, robotics and informatics nature. Basic principles of feedback and its use as a tool for altering the behavior of systems and managing uncertainty. Classical and modern methods for analysis and design of

automatic control	systems. Students specialized in systems and control will build on these ideas and knowledge in the advanced courses to follow. Stu programs will find out that control is a inspiring, ubiquitous and entertaining field worth of a future cooperation.	dents of other brai	nches and
A8B36BAP	Bachelor thesis	Z	9
	roject for the Bachelor's degree study program. Student will choose a topic from a range of topics related to his or her branch of study t	_	_
	artment or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive fina	=	,
A8B37BAP	Bachelor thesis	Z	9
Independent final p	project for the Bachelor's degree study programme. A student will choose a topic from a range of topics related to his or her branch of	study, which will b	e specified
by branc	h department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensiv	e final examination	٦.
A8B37DCM	Digital Communications	Z,ZK	5
	es fundamentals of digital communications theory: modulation, classical coding, channel models, and basic principles of decoding. The		-
J	poretical lines which allow to reveal all inner connections and principles. This allows students to develop the knowledge and use it in a	,	J
	of the communication systems. The course provides a necessary fundamental background for subsequent more advanced communication systems.		
A8B37DIT	Digital Design	Z,ZK	5
•	irse is to introduce the philosophy of digital circuits' design, to provide formal description of combinational and sequential logical circuit functional description, as well as minimization algorithms for output and transient functions of digital components and circuits is pres		
	ite-state Mealy and Moore machines are the essential part of the content. The subject matter discussed will be tested on the typical of	-	-
A8B37SAS	Signals and Systems	Z,ZK	8
	crete time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analogous	,	
	conditions. Fundamental course for further study focusing on communication, measurement and signal processing.	, y c	
A8B37SSP	Statistical Signal Processing	Z,ZK	6
	es fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and ac	,	_
•	s a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation,		
	evaluation, etc.		
A8B38BAP	Bachelor thesis	Z	9
	project for the Bachelor's degree study program. A student will choose a topic from a range of topics related to his or her branch of stu	-	specified by
	department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive		
A8B38EME	Electronic Measurements	KZ	4
The course is focus	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e	lectronics, telecom	munications
40000040	and radio communications.	_	
A8B39BAP	Bachelor thesis	Z	9
ABAP9	Bachelor thesis	Z	9
B0B16ET1	Ethic 1	KZ	4
	is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ		e. Essential
	the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co		
B0B16FI1	Philosophy 1	KZ	4
we deal with the	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophical philosophical thoughts with recent problems of science, technology, economics and politics.	opny and connecti	on or ord
B0B16FIL	Philosophy	ZK	2
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philoso		
Wo dod with the	philosophical thoughts with recent problems of science, technology, economics and politics.	opriy and connoca	on or ord
B0B16HI1	History 1	KZ	4
B0B16HT1	History of science and technology 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
DODIOILE	riistory or teerinology and economic		
B0B16MPL	Psychology for managers	ZK	2
B0B16MPL B0B16MPS	Psychology for managers Psychology	ZK Z,ZK	2
B0B16MPL B0B16MPS B3B04PSA	Psychology for managers Psychology Academic Writing	ZK Z,ZK KZ	2 4 2
B0B16MPL B0B16MPS B3B04PSA	Psychology for managers Psychology Academic Writing d course in which students learn how or improve their ability to correctly and effectively formulate common written documents such a	ZK Z,ZK KZ	2 4 2
B0B16MPL B0B16MPS B3B04PSA Practically focuse	Psychology for managers Psychology Academic Writing d 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.	ZK Z,ZK KZ as their own notes,	2 4 2 research,
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE	Psychology for managers Psychology Academic Writing d 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. Presentation	ZK Z,ZK KZ as their own notes,	2 4 2 research,
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI	Psychology for managers Psychology Academic Writing Industrial 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. Presentation Computer Networks	ZK Z,ZK KZ as their own notes, KZ Z,ZK	2 4 2 research, 3 5
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI BE9M04AKP	Psychology for managers Psychology Academic Writing d 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. Presentation Computer Networks Academic Writing	ZK Z,ZK KZ as their own notes, KZ Z,ZK KZ	2 4 2 research, 3 5 2
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI BE9M04AKP ACADEMIC WRI	Psychology for managers Psychology Academic Writing Industrial description of 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. Presentation Computer Networks Academic Writing TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to imp	ZK Z,ZK KZ as their own notes, KZ Z,ZK KZ rove the student's	2 4 2 research, 3 5 2 skills and
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI BE9M04AKP ACADEMIC WRI abilities of writing a	Psychology for managers Psychology Academic Writing Industrial description of 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. Presentation Computer Networks Academic Writing TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to impacademically (in English). This course is not simply an opportunity for students who have registered to have someone (the instructor)	ZK Z,ZK KZ as their own notes, KZ Z,ZK KZ rove the student's simply proofread a	2 4 2 research, 3 5 2 skills and and correct
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI BE9M04AKP ACADEMIC WRI abilities of writing at their texts - the ulti	Psychology for managers Psychology Academic Writing Industrial description of 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. Presentation Computer Networks Academic Writing TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to imp	ZK Z,ZK KZ as their own notes, KZ Z,ZK KZ rove the student's simply proofread as not up to the exp	2 4 2 research, 3 5 2 skills and and correct ected level
B0B16MPL B0B16MPS B3B04PSA Practically focuse B6B04PRE B6B32PSI BE9M04AKP ACADEMIC WRI abilities of writing at their texts - the ulti	Psychology Academic Writing Industry 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. Presentation Computer Networks Academic Writing TING COURSE (BE9M04AKP) Objective(s): The overall aim of this course is not to increase the student's level of English, but to impacademically (in English). This course is not simply an opportunity for students who have registered to have someone (the instructor) 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 is	ZK Z,ZK KZ as their own notes, KZ Z,ZK KZ rove the student's simply proofread as not up to the exp	2 4 2 research, 3 5 2 skills and and correct ected level
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TVKZV	Physical Education Course	Z	0
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For updated information see $\underline{\text{http://bilakniha.cvut.cz/en/f3.html}}$ Generated: day 2024-05-20, time 05:55.