## Study plan

## Name of study plan: Open Electronic Systems

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

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

Required credits: 173
Elective courses credits: 7
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: BOESEBAP 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:

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
AE8B16BAP	Bachelor project	Z	9	7s	Z,L	Р
AE8B14BAP	Bachelor Project	Z	9	7s	L	Р
AE8B13BAP	Bachelor Project	Z	9	7S	L	Р
AE8B33BAP	Bachelor Project	Z	9	7S	L	Р
AE8B39BAP	Bachelor Project	Z	9	7S	L	Р
AE8B17BAP	Bachelor Project	Z	9	7s	L	Р
AE8B31BAP	Bachelor Project	Z	9	7ZP	L	Р
AE8B34BAP	Bachelor Project	Z	9	7C	L	Р
AE8B35BAP	Bachelor Project	Z	9	7S	L	Р
AE8B36BAP	Bachelor Project	Z	9	7s	L	Р
AE8B37BAP	Bachelor Project	Z	9	7s	L	Р
AE8B38BAP	Bachelor Project	Z	9	0P+7C	L	Р
AE8B15BAP	Bachelor's thesis	Z	9	7s	L	Р
ABAP9	Bachelor thesis	Z	9	28s	L	Р

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

AE8B16BAP	Bachelor project	Z	9
AE8B14BAP	Bachelor Project	Z	9
AE8B13BAP	Bachelor Project	Z	9
Independent final proje	ct for the Bachelor's degree study program. A student will choose a topic from a range of topics related to his or her branch o	f 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 ex	amination.	
AE8B33BAP	Bachelor Project	Z	9
AE8B39BAP	Bachelor Project	Z	9
AE8B17BAP	Bachelor Project	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.

AE8B31BAP	Bachelor Project	Z	9
The subject Bachelor P	roject is an 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 field
of study, which will be s	pecified by branch department or branch departments. The Bachelor's project will be defended in front of the board of exami	ners for the comp	rehensive final
examination.			
AE8B34BAP	Bachelor Project	Z	9
Independent final project	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.	
AE8B35BAP	Bachelor Project	Z	9
AE8B36BAP	Bachelor Project	Z	9
AE8B37BAP	Bachelor Project	Z	9
Independent final project	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.	
AE8B38BAP	Bachelor Project	Z	9
AE8B15BAP	Bachelor's thesis	Z	9
ABAP9	Bachelor thesis	Z	9

Code of the group: BOESEP

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:

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
AE8B14ADP	Algorithm Development and Programming	Z,ZK	5	2+2c	Z	Р
AE8B01OGT	Optimization and Game Theory	Z,ZK	4	3+1s	L	Р

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

AE8B14ADP	Algorithm Development and Programming	Z,ZK	5
Course objective: Introd	uction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C pro	gramming langua	ge, Syntax and
semantics. Basic skills	of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parame	ter passing, array	s, pointers,
structures, compilation	and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems	orogramming and	debugging.
AE8B01OGT	Optimization and Game Theory	Z.ZK	4

Code of the group: BOESEBBE

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:

	"P"					
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
BEEZZ	Basic health and occupational safety regulations Radek Havlíček, Vladimír Kůla, Ivana Nová Radek Havlíček Vladimír Kůla (Gar.)	Z	0	2BP+2BC	Z	Р
BEEZB	Safety in Electrical Engineering for a bachelor's degree Radek Havlíček, Vladimír Kůla, Ivana Nová Radek Havlíček Vladimír Kůla (Gar.)	Z	0	2BP+2BC	Z,L	Р

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

BEEZZ	Basic health and occupational safety regulations	Z	0
The guidelines were wo	rked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Cze	ch Technical Univ	ersity in Prague,
which was provided by t	he Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of	f Health and Occu	pational Safety
regulations forms an int	egral and permanent part of qualification requirements. This program is obligatory.		
BEEZB	Safety in Electrical Engineering for a bachelor's degree	Z	0
The purpose of the safe	ty course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from oper	ation of it. This intr	oductory course
contains fundamentals	of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	on electrical equip	oment.

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: BOESEPO

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 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
AE8B31AAC	Analog and Acitve Circuits	Z,ZK	6	3P+2S	Z	PO
AE8B31CIR	Circuit Theory	Z,ZK	8	4P+2S	L	PO
AE8B32DNT	Data Networks Theory	Z,ZK	5	3P + 1L	Z	PO
AE8B37DCM	Digital Communications	Z,ZK	5	4P+0C	Z	PO
AE8B37DIT	Digital Design	Z,ZK	5	2P+2C	L	РО
AE8B32DSP	Digital Signal Processing	Z,ZK	5	3P + 1L	Z	PO
AE8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2	0P + 2C	Z	PO
AE8B17ELD	Electrodynamics	Z,ZK	5	3P+1S	L	PO
AE8B17EMT	Electromagnetic Field Theory	Z,ZK	8	4P+2S	Z	РО
AE8B34EOD	Electronic and Optoelectronic Devices	Z,ZK	6	3P+2L	Z	PO
AE8B38EME	Electronic Measurements	KZ	4	2P+1L	L	PO
AE8B31ELE	Elements of Electronics	KZ	4	2P	L	РО
AE8B35FCS	Feed-Back Control Systems	Z,ZK	6	4P+2L	L	PO
AE8B32IES	Introduction to Electronic Systems	Z	2	0P + 2L	Z	PO
AE8B37SAS	Signals and Systems	Z,ZK	8	4P+2C	L	PO
AE8B34SST	Solid State Physics	Z,ZK	4	3P+1L	L	PO
AE8B37SSP	Statistical Signal Processing	Z,ZK	6	4P+0C	L	РО

AE8B31AAC	Analog and Acitve Circuits	Z,ZK	6
The subject AE8B31A	NC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function	n blocks of electronic	systems based
on basic semiconduc	or electronic components operating in linear and non-linear modes.		
AE8B31CIR	Circuit Theory	Z,ZK	8
The subject AE8B310	CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic e	ffects, an electric circ	uit is presented
as a special quasistat	ionary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling a	II kinds of actual ener	gy interactions
The subject is specific	cally oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and	d analysis methods of	linear circuits
working in steady and	transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? c	haracterization is app	lied on circuit
transfer properties an	alysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems theory.		
AE8B32DNT	Data Networks Theory	Z,ZK	5
AE8B37DCM	Digital Communications	Z,ZK	5
The course provides	undamentals of digital communications theory: modulation, classical coding, channel models, and basic principles of decodi	ng. The exposition is	systematically
built along the theore	ical lines which allow to reveal all inner connections and principles. This allows students to develop the knowledge and use i	t in an active way in a	design and
construction of the co	mmunication systems. The course provides a necessary fundamental background for subsequent more advanced communi	cations theory course	S.
AE8B37DIT	Digital Design	Z,ZK	5
The goal of this cours	e is to introduce the philosophy of digital circuits' design, to provide formal description of combinational and sequential logica	circuits, their function	nal blocks. Both
mathematical and fun	ctional description, as well as minimization algorithms for output and transient functions of digital components and circuits is	presented. Karnaugh	n maps, latch
elements, finite-state	Mealy and Moore machines are the essential part of the content. The subject matter discussed will be tested on the typical of	lesign of digital circuit	ts.
AE8B32DSP	Digital Signal Processing	Z,ZK	5
This subject is focuse	d upon basics in the digital signal processing, systems and methods for digital signal processing.		
AE8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2
This is a shared pract	ical laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications	(B-DCM) and Data N	Network Theory
(B-DNT) courses. It d	emonstrates how these areas together allow designing a complex functional system. During the course, students will design	a set of building block	ks based on
individual pieces of k	nowledge from the all above stated courses allowing at the end to build complex demonstration signal processing and comm	unication systems. Th	e laboratory
uses a computer base	d simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrate:	s how various CAD an	d mathematica
SW tools can be used	I in designing the system.		
AE8B17ELD	Electrodynamics	Z,ZK	5
The course AEB17EL	D (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decom	position of electroma	gnetic field int
nlanewayee introduc	es radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The the	ory of wave guides ar	nd transmissio
pianewaves, introduc	tadation of waves and galace statem anough the interaction of clost emagnetic waves with material beartaines. The the	ory or mare galace as	
•	ne course ends with wave scattering. The knowledge gained in this course is needed for number of specialized master course		
•			8

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.

AE8B34EOD 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.

AE8B38EME **Electronic Measurements**  ΚZ

The course is focused to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in electronics, telecommunications and radio communications

AE8B31ELE 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.

AE8B35FCS Feed-Back Control Systems Z.ZK

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. Students of other branches and programs will find out that control is a inspiring, ubiquitous and entertaining field worth of a future cooperation.

Introduction to Electronic Systems

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.

AE8B37SAS Signals and Systems Z,ZK

Continuous and discrete time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analog modulations with their noise conditions. Fundamental course for further study focusing on communication, measurement and signal processing. AE8B34SST Solid State Physics

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.

Z.ZK

AE8B37SSP Statistical Signal Processing Z.ZK

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: 0

The role of the block: V

Code of the group: BEJK

Name of the group: Language courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the g	<b>,</b>					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)  Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A0B04GA	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KA	English Conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04OA	Technical English Course Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	٧
A0B04C2Z	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z	٧
A0B04C2L	Czech language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	L	٧
A0B04CIN	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF1	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KF2	French conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04F1	French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04F2	French language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04F3	French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	٧
A0B04JAP	Japanese Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V

A0B04GN	German Grammar Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KN	German Conversation Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04N1	German language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N2	German language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04N3	German language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04ON	Professional German Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE1	Certificate of Advanced English CAE 1 Petra Juna Jennings	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 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	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
A0B04RET	Rhetoric Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR	Russian conversation	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2	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 Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R4	Russian language 3 Jitka Pinková Petra Juna Jennings (Gar.)	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 (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04CA	Technical English for Pre-Intermediate	Z	2	2C	L	V
Characteristics of	the courses of this group of Study Plan: Code=BEJK Name=Lang	guage course	s			
A0B04GA			_		Z	2
	to extend and complement grammatical patterns covered in other English courses that a		-time studer	nts. The cou	rse is meant r	nainly as a
	who have not yet passed the B2 examination and are interested in further study and addi	uonai practice.			Z	2
A0B04KA	English Conversation 2			1	_	_

A0B04GA			Z	2
The aim of this cou	urse is to extend and complement grammatical patterns covered in other English courses that are intend	led for full-time students. The co	urse is mea	int mainly as a
supplement for stud	udents who have not yet passed the B2 examination and are interested in further study and additional pr	actice.		
A0B04KA	English Conversation 2		Z	2
The course is design	igned for students who want to develop their communication skills. Students will be given the opportunity	to use the vocabulary they alre	ady know, a	s well as learn
new words and phr	arases, to communicate on a variety of topics and themes. This course is not designed for beginners.			
A0B04OA	Technical English Course		Z	2
This course is design	igned for students who have successfully passed the B2 Exam or have met the exam requirement. Its ma	in objective is to prepare studen	ts to be able	to communicat
about technical sub	bject matter in English in a variety of formats. This will be practiced by examining the structure and style o	of writing in formal English and p	racticing via	3 different type
of texts: an abstract	ct, a short explanatory article, and a research article.			
or toxtor air abourao	, , , , , , , , , ,			
A0B04C2Z	Czech language 2		Z	2
A0B04C2Z		the needs of technical universi	_	2
A0B04C2Z	Czech language 2	the needs of technical universi	_	2
A0B04C2Z The course is aime A0B04C2L	Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet		ty students	·
A0B04C2Z The course is aime A0B04C2L	Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2		ty students	·
A0B04C2Z The course is aime A0B04C2L The course is aime	Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2		ty students	2
A0B04C2Z The course is aime A0B04C2L The course is aime A0B04CIN	Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet		ty students	2
A0B04C2Z The course is aime A0B04C2L The course is aime A0B04CIN A0B04KF1	Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet Czech language 2 ed at foreign students studying in Czech, it further develops their language knowledge and skills to meet French conversation 1		ty students	2 2 2

A0B04F3	French Language 3	Z	2
A0B04JAP	Japanese	Z	2
A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04N1	German language 1	Z	2
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04ON	Professional German	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
you to improve your late ability to use the texts of various types as well as by employed for obtaining credit to A0B04CAE2	e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bar anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be . CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for coursers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries take CAE at British Council.  Certificate of Advanced English CAE 2	sed on realistic tas able to understan es taught and ass es. It is possible b	sks and indicates d and produce essed in English ut not necessary
you to improve your lather ability to use the least sof various types as well as by employe	e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers inguage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is back anguage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be a CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for coursers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countrietake CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.	sed on realistic tas able to understan es taught and ass	sks and indicates d and produce essed in English
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the course	e is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers	unit 9 - 12. Studyi	ng for CAE helps
you to improve your l	anguage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.		
A0B04FCE1	FCE 1	Z	2
The course is aimed	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu	ropean Language	Frame. The
course focuses on im B2 ELF.	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtai	ning the required	skills needed fo
A0B04FCE2	FCE 2	Z	2
The course is aimed	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu	ropean Language	Frame. The
course focuses on im B2 ELF.	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain	ning the required	skills needed fo
A0B04FCE4	FCE4	Z	2
	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eu	_	_
	proving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain		
A0B04FCE3	FCE 3	Z	2
	for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Co	I	l
	ages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetic	-	
obtaining the require	d skills needed for B2 CEFR.		_
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04RET	Rhetoric	Z	2
	subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of		
bachelors. This subje	ct will enable the students to develop both spoken and written presentations, non verbal communication and remove the psycho	ological barriers fo	r public speakin
so that the students o	an create a good image. The course "Retorika" provides an introduction to this subject.		
A0B04KR	Russian conversation	Z	2
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
A0B04S1	Spanish language 2	Z	2
A0B04S2 A0B04S3	Spanish language 3	Z	2
7.000700	Opanion language o		

Code of the group: BETVK

A0B04S4

A0B04CA

Name of the group: Physical Courses

Spanish Language 4

Technical English for Pre-Intermediate

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0 Note on the group:

Z

2

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
A0B03TVKL	Physical Education Course	Z	1	7dní	L	V
A0B03TVKZ	Physical Education Course	Z	1	7dní	Z	V

#### Characteristics of the courses of this group of Study Plan: Code=BETVK Name=Physical Courses

Physical Education Course

In the bachelor stage of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exercise skills. The summer course - games course - focuses on improving the knowledge and skills on multigame level - courses of hiking, cycling, canoeing and combined courses - special courses - swimming, windsurfing

A0B03TVKZ **Physical Education Course** 

In the bachelor stage of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exercise skills. The winter course cross-country skiing, downhill skiing, snowboarding training.

Code of the group: BETV

Name of the group: Phisical Training 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
03TV	Physical Education	Z	1	2s	Z,L	V
A0B03TV3	Physical Education 3	Z	1	2s	Z	V
A0B03TV4	Physical Education 4	Z	1	2s	L	V
A0B03TV5	Physical Education 5	Z	1	2s	Z	V
A0B03TV6	Physical Education 6	Z	1	2s	L	V

### Characteristics of the courses of this group of Study Plan: Code=BETV Name=Phisical Training

Physical Education Ζ The student can be enlisted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at F.E.E.) after finishing the optional

P.E. subject. The syllabi of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303

A0B03TV3 Physical Education 3

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

#### Physical Education 4

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

#### A0B03TV5 Physical Education 5

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

#### Physical Education 6

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain basic knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball, beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to their own interest and available capacity.

# List of courses of this pass:

Code	Name of the course	Completion	Credits
03TV	Physical Education	Z	1
The student can be	e enlisted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at F.E P.E. subject. The syllabi of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303	.E.) after finishing t	the optional
A0B03TV3	Physical Education 3	Z	1
_	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	-	-
_	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec		
1	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling Idminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl		
I	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described their own interest and available capacity.		-
A0B03TV4	Physical Education 4	Z	1
The main goal o	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	cation as well as g	jain basic
_	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec		
1	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling Idminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl		
_	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
	their own interest and available capacity.	· ·	
A0B03TV5	Physical Education 5	Z	1
_	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	_	=
_	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling		
1 '	adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl		
	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
	their own interest and available capacity.		
A0B03TV6	Physical Education 6	Z	1
	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu		
1	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling		
1 '	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipling dimension, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cl		
	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
_	their own interest and available capacity.		_
A0B03TVKL	Physical Education Course	Z	1
	age of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exerci		
- games course	- focuses on improving the knowledge and skills on multigame level - courses of hiking, cycling, canoeing and combined courses - s	pecial courses - sw	vimming,
A0B03TVKZ	windsurfing Physical Education Course	7	1
	age of study the student has to undergo one of P.E. courses (winter or summer course). These courses are aimed at improving exerc		1 -
	cross-country skiing, downhill skiing, snowboarding training.		
A0B04C2L	Czech language 2	Z	2
The course	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university studer	nts.
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	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni 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 abl		
_	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	oyers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	t is possible but no	t necessary
	for obtaining credit to take CAE at British Council.	,	T
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni		
	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 able		
_	re language in practical situations, fou will be able to participate in meetings and discussions, expressing opinions clearly and be ables. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses to		-
	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	er.	
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the cou	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	· -	r CAE helps
400010	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of col		
A0B04CIN		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		
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	B2 ELF. FCE 2	Z	2
	FOE 2 ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	<del>-</del>	1
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining		
	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	•	II.
	guages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - a obtaining the required skills needed for B2 CEFR.	and is submitted to	the goal of
A0B04FCE4	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 improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.		II.
A0B04GA		Z	2
The aim of this co	urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The		nainly as a
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional practi		
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04KA	English Conversation 2	Z	2
The course is des	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.	iready know, as w	eli as learn
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KR	Russian conversation	Z	2
A0B04KR2	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
	gned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude oject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and		II.
about technical sut	of texts: an abstract, a short explanatory article, and a research article.	practicing via 3 dii	iereni 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
The objective of t	he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the	e prospective engi	neers and
bachelors. This sub	oject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologic	cal barriers for pub	lic speaking
A0D0404	so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	7	
A0B04S1 A0B04S2	Spanish language 1	Z	2
	Spanish language 2	Z	2
A0B04S3	Spanish Language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
ABAP9	Bachelor thesis	Z 7//	9
AE8B01OGT	Optimization and Game Theory	Z,ZK Z	9
AE8B13BAP	Bachelor Project 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	_	
	department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive	-	
AE8B14ADP	Algorithm Development and Programming	Z,ZK	5
	Introduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C program		
	c skills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, parameter		
	oilation and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr		
AE8B14BAP	Bachelor Project	Z	9
AE8B15BAP	Bachelor's thesis	Z	9
AE8B16BAP	Bachelor project	Z	9
AE8B17BAP	Bachelor Project  Project for the Bachelor's degree study programme. A student will shoose a topic from a range of topics related to his or her branch of	Z study which will b	9
	oroject 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 Ient or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive final exa		
2 september	are oriented into microwave technique, antennas, propagation, optoelectronics, EMC, medical applications.		

AE8B17ELD			
	Electrodynamics	Z,ZK	5
	ELD (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition access 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	-	141131111331011
AE8B17EMT	Electromagnetic Field Theory	Z,ZK	8
	ainted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides s		ctrostatics,
-	troduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained		
	sequent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize		
AE8B31AAC	Analog and Acitve Circuits	Z,ZK	6
ne subject AE8B3	1AAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block on basic semiconductor electronic components operating in linear and non-linear modes.	s of electronic sys	tems based
AE8B31BAP	Bachelor Project	Z	9
l l	lor Project is an independent final project for the Bachelor's degree study programme. A student will choose a topic from a range of to		-
=	be specified by branch department or branch departments. The Bachelor's project will be defended in front of the board of examiner examination.	•	
AE8B31CIR	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,	,	
s a special quasist	tationary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds	s of actual energy i	interactions.
	cifically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and anal	,	
vorking in steady a	and transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? charac transfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems		d on circuit
AE8B31ELE	Elements of Electronics	KZ	4
•	HELE (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementary ba		
	pes and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instance AE		
	MT (B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical methods a dy stage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory - sigr		
ille bachelor stu	and microprocessor technique.	iai and system the	ory - digital
AE8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2
l l	actical laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications (B-DC		1
	It demonstrates how these areas together allow designing a complex functional system. During the course, students will design a se	•	_
individual pieces o	of knowledge from the all above stated courses allowing at the end to build complex demonstration signal processing and communication	ation systems. The	laboratory
ses a computer ba	sed simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrates how verify the system functional transfer and its performance.	various CAD and m	nathematical
. = - = - = -	SW tools can be used in designing the system.		_
AE8B32DNT	Data Networks Theory	Z,ZK	5
	Digital Cignal Processing		
AE8B32DSP	Digital Signal Processing	Z,ZK	5
AE8B32DSP	This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing.		-
AE8B32IES	This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing.  Introduction to Electronic Systems	Z	2
AE8B32IES This is a motivatio	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 have a choice from	2 m this offer
AE8B32IES This is a motivatio	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 have a choice from	2 m this offer
AE8B32IES This is a motivatio based on their pre	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 have a choice from the next goal is to g	2 m this offer et an idea
AE8B32IES This is a motivatio based on their pre	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.  Bachelor Project	Z have a choice from the next goal is to g	2 m this offer et an idea
AE8B32IES   This is a motivatio based on their pre AE8B33BAP   AE8B34BAP	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 have a choice from the next goal is to goal is goal is to goal is goal i	2 m this offer et an idea 9
AE8B32IES This is a motivatio based on their pre AE8B33BAP AE8B34BAP ndependent final p	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.  Bachelor Project  Bachelor Project	Z have a choice from the next goal is to goal is goal i	2 m this offer et an idea  9 9 oe specified
AE8B32IES   This is a motivatio based on their pre AE8B33BAP   AE8B34BAP   ndependent final p	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.  Bachelor Project  Bachelor Project  Bachelor Project oroject 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	Z have a choice from the next goal is to goal is goal i	2 m this offer et an idea  9 9 oe specified
AE8B32IES This is a motivatio based on their pre AE8B33BAP AE8B34BAP Independent final properties by branch AE8B34EOD This course intre	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.  Bachelor Project  Bachelor Project  Bachelor Project  Oroject 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 the department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive Electronic and Optoelectronic Devices  roduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operations.	Z have a choice from the next goal is to goal is goal i	2 m this offer et an idea  9 9 se specified n. 6 rres and
AE8B32IES This is a motivation based on their presentation by branch AE8B34EOD This course introduced by the course interpretable by the course introduced by the course introduced by t	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.  Bachelor Project  Bachelor Project  Bachelor Project  Oroject 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 the department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive Electronic and Optoelectronic Devices  roduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of operative explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are examined.	Z have a choice from the next goal is to goal is goal is to goal is	2 m this offer et an idea  9 9 9 se specified n. 6 rres and s and labs,
AE8B32IES This is a motivation based on their presentation by branch AE8B34EOD This course introduced by the course interpretable by the course introduced by the course introduced by t	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.  Bachelor Project  Bachelor Project  Bachelor Project  Oroject 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 the department or branch departments. The Bachelor's project will be defended in front of the board of examiners for the comprehensive Electronic and Optoelectronic Devices  roduces 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 device parameters.	Z have a choice from the next goal is to goal is goal is to goal is	2 m this offer et an idea  9 9 9 se specified n. 6 rres and s and labs,
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AE8B37SAS	Signals and Systems	Z,ZK	8		
Continuous and discrete time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analog modulations with their noise					
conditions. Fundamental course for further study focusing on communication, measurement and signal processing.					
AE8B37SSP	Statistical Signal Processing	Z,ZK	6		
The course provide	es fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and a	daptive filtering. Th	ne statistical		
signal processing is	s a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation,	measurement and	dexperiment		
	evaluation, etc.				
AE8B38BAP	Bachelor Project	Z	9		
AE8B38EME	Electronic Measurements	KZ	4		
The course is focus	The course is focused to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in electronics, telecommunications				
	and radio communications.				
AE8B39BAP	Bachelor Project	Z	9		
BEEZB	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.					
BEEZZ	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.					

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-12-07, time 07:05.