Recomended pass through the study plan

Name of the pass: Open Electronic Systems - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Open Electronic Systems

Branch of study guranteed by the department: Common courses

Guarantor of the study branch:

Program of study: Open Electronic Systems

Type of study: Bachelor full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
BEZB	Safety in Electrical Engineering for a bachelor's degree Radek Havlí ek, Ivana Nová, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Р
A8B01DMG	Discrete Math.& Graphs Marie Demlová Marie Demlová (Gar.)	Z,ZK	5	3P+1S	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
BEZZ	Basic health and occupational safety regulations Radek Havlí ek, Ivana Nová, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р
A8B17CAS	Computer Algebra Systems (CAS) Miloslav apek Miloslav apek (Gar.)	Z	2	1P+1C	Z	РО
A8B32IES	Introduction to Electronic Systems Pavel Hazdra, Zbyn k Škvor, Pavel Zahradník, Stanislav Vítek, Jan Sýkora, Ji í Hospodka Zbyn k Škvor Zbyn k Škvor (Gar.)	Z	2	0P + 2L	Z	РО
2020_BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/139			V

Number of semester: 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
B0B01DRN	Differencial Equations and Numerical Analysis Josef Dvo ák, Karel Pospíšil, Petr Habala, Daniel Gromada Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Р
B2B02FY1	Physics 1 Petr Kulhánek, Petr Koní ek Petr Kulhánek Petr Kulhánek (Gar.)	Z,ZK	8	4P+1L+2C	L	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
A8B37DIT	Digital Design Petr Skalický Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P+2C	L	РО
A8B17EFC	Electrical Field and Circuits Zbyn k Škvor, Radoslav Bortel Zbyn k Škvor Zbyn k Škvor (Gar.)	KZ	4	2P+1S	L	РО
A0B04B2Z	English language B2-exam Pavla Péterová	Z,ZK	0	0C	Z,L	V
2020_BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max			V

8/139		
0/100		

Number of semester: 3

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
B2B02FY2	Physics 2 Petr Kulhánek, Petr Koní ek Petr Kulhánek Petr Kulhánek (Gar.)	Z,ZK	7	3P+1L+2C	Z	Р
A8B01MCT	Mathematics-Complex Variable and Integral Transforms Martin Bohata Martin Bohata (Gar.)	Z,ZK	7	4P+2S	Z	Р
B0B01PST	Probability and Statistics Kate ina Helisová, Matvei Slavenko, Miroslav Korbelá, Veronika Sobotíková Kate ina Helisová Petr Hájek (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B17EMTA	Electromagnetic Field Theory Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	7	4P+2S	Z	РО
2020_BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/139			V

Number of semester: 4

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
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 (Gar.)	Z,ZK	4	3P+1S	L	Р
A8B34SST	Solid State Physics Jan Voves Jan Voves (Gar.)	Z,ZK	4	3P+1C	L	РО
A8B37SAS	Signals and Systems Jan Sýkora, Karel Fliegel, Pavel Puri er Karel Fliegel Jan Sýkora (Gar.)	Z,ZK	8	4P+2C	L	РО
A8B31CIR	Circuit Theory Ji í Hospodka Ivan Zemánek Ivan Zemánek (Gar.)	Z,ZK	8	4P+2S	L	РО
2020_BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/139			V

Number of semester: 5

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A8B31AAC	Analog and Active Circuits Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	6	3P+2S	Z	PO
A8B37DCMA	Digital Communications Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	3P+1C	Z	РО
A8B32DSP	Digital Signal Processing Pavel Zahradník, Boris Šimák Boris Šimák Pavel Zahradník (Gar.)	Z,ZK	5	3P + 1L	Z	PO
A8B34EOD	Electronic and Optoelectronic Devices Pavel Hazdra Pavel Hazdra (Gar.)	Z,ZK	6	3P+2L	Z	РО
A8BPROJ2	Project Lubor Jirásek, Pavel Máša, Ivan Pravda, František Rund, Jan Šístek	Z	2	0P+2S	Z,L	РО
A8B32DNT	Data Networks Theory Leoš Bohá, Zden k Be vá, Pavel Mach, Mostafa Kishanifarahani Zden k Be vá Zden k Be vá (Gar.)	Z,ZK	5	3P + 1L	Z	РО

Number of semester: 6

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BBAP15	Bachelor thesis	Z	15	15s	L,Z	Р
A8B17ELD	Electrodynamics Zbyn k Škvor, Lukáš Jelínek 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	PO

A8B37SSP	Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	PO
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List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specificat	of courses and ion see here o	codes of members of this below the list of courses)	Completio	Credits	Scope	Semester	Role
2020_BO	ESHEM			nažerské p edm ty		Min/Ma 8/139	x		v
BE9M04AKP	Academic	Writing	B3B04PSA	Academic Writing	A0B04	GÁ			
A0B04KA	English Co	onversation 2	A0B04KA2	English Conversation 2	A0B04	DA T	echnical Eng	lish Course	
A0B04C2Z	Czech lang	guage 2	A0B04C2L	Czech language 2	A0B04	CIN			
A0B04CIN2	Chinese La	anguage 2	A0B16EPD	Business economics	B0B16	ET1 E	thic 1		
B0B16FIL	Philosophy	/	B0B16FI1	Philosophy 1	A0B04l	KF1 F	rench conve	rsation 1	
A0B04KF2	French cor	nversation 1	A0B04F1	French language 1	A0B04	-2 F	rench langua	age 2	
A0B04F3	French Lar	nguage 3	B0B39GRT	Graphical Design	B0B16l	HTE H	listory of tecl	hnology and eco	onom
B0B16HT1	History of	science and technolog	B0B16HI1	History 1	A0B04	JAP J	apanese		
A0B04JAP2	Japanese	2	A1B16MME	Macro and Microeconomics	B0B16I	MPS F	sychology		
A0B04GN	German G	rammar	A0B04KN	German Conversation	A0B04l	KN2	erman conv	ersation 2	
A0B04N1	German la	nguage 1	A0B04N2	German language 2	A0B04l	V3 G	erman langı	uage 3	
A0B04ON	Profession	al German	BE9M04PRE	Presentation Skills	B6B04l	PRE F	resentation		
A0B16PRS	Presentation	on skills	A0B04CAE1	Certificate of Advanced English	A0B04	CAE2 C	ertificate of	Advanced Engli	sh
A0B04CAE3	Certificate	of Advanced English	A0B04FCE1	FCE 1	A0B04	FCE2 F	CE 2		
A0B04FCE4	FCE4		A0B04FCE3	FCE 3	A0B04l	PZP F	reparation fo	or stay in Germa	iny
B0B16MPL	Psycholog	y for managers	A0B04RET	Rhetoric	A0B04l	KR2 F	ussian conv	ersation 2	
A0B04R1	Russian la	nguage 1	A0B04R2	Russian language 2	A0B04	R3 F	ussian langı	uage 3	
A0B04R4	Russian la	nguage 3	A0B04KS1	Spanish conversation 1	A0B04l	KS2 S	panish conv	ersation 2	
A0B04S1	Spanish la	nguage 1	A0B04S2	Spanish language 2	A0B04	S3 S	panish langu	uage 3	
A0B04S4	Spanish La	anguage 4	A0B04CA	Technical English for Pre-Interm	A003T\	/ F	hysical Educ	cation	

List of courses of this pass:

Completion Credits

Name of the course

Code

A003TV	Physical Education	Z	2
A0B04B2Z	English language B2-exam	Z,ZK	0
A0B04C2L	Czech language 2	Z	2
The course	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts.
A0B04C2Z	Czech language 2	Z	2
The course	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
The aim of the coul	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni	ts 1-4. Studying for	CAE helps
you to improve your	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based	on realistic tasks a	nd indicates
the ability to use the	ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab	e to understand ar	nd produce
texts of various type	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses t	aught and assesse	d in English
as well as by emplo	yers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	t is possible but no	t necessary
	for obtaining credit to take CAE at British Council.		
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
The aim of the coul	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers uni	ts 5-8. Studying for	CAE helps
you to improve your	language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based	on realistic tasks a	nd indicates
the ability to use the	ne language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be ab	e to understand ar	nd produce
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses t	•	
as well as by emplo	yers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. I	•	t necessary
	for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semeste	er.	
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
The aim of the cour	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit		r CAE helps
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co	ntexts.	
A0B04CIN		Z	2
A0B04CIN2	Chinese Language 2	Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2

A0B04FCE1	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 B2 ELF.	the required skills	s needed for
A0B04FCE2	FCF 2	7	2
	ΓΟΕ Ζ ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	_	1
	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining		
course rocuses on	B2 ELF.	the required skills	Ticcaca ioi
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 Comr	non European Fra	mework of
Reference for Lang	guages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics -	and is submitted to	the goal of
	obtaining the required skills needed for B2 CEFR.		
A0B04FCE4	FCE4	Z	2
	med 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 B2 ELF.	the required skills	s needed for
A0B04GA	52 EU.	Z	2
	l urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The	_	1
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract		,
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04JAP2	Japanese 2	Z	2
A0B04KA	English Conversation 2	Z	2
	igned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a		ell 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	Z	2
	igned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a	-	
new words and p	hrases, to communicate on a variety of topics and themes. The course is generally designed as a follow-up to the Conversation One	course, building or	n the skills
A 0D 0 41/E4	presented there; however, attending Conversation One is not a pre-requisite. This course is not designed for beginners.	-	
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04KR2	Russian conversation 2	Z	2
A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	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		
about technical sub	of texts: an abstract, a short explanatory article, and a research article.	practicing via 3 di	nerent 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
A0B04R2 A0B04R3	Russian language 3	Z	2
A0B04R3 A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
	he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of th		
	eduction in the students to develop both spoken and written presentations, non verbal communication and remove the psychologic		
	so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	•	
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0B16EPD	Business economics	KZ	4
Basic course of Bus	siness Economics deals with the subject from wide angle of view, discussing all particular aspects of Business Economics (see list of to	ppics below), and r	
	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		
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 was They will prove gained theoretical knowledge on self prepared interactive presentation that is recorded on video and discuss	-	referencing.
A1B16MME	Macro and Microeconomics	ea. Z,ZK	5
	INIACTO AND INICTOECOTIONICS ms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod		-
	ure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary p		
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.	-	

A8B01AMA	Advanced Matrix Analysis	Z,ZK	4
A8B01DMG	The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions Discrete Math.& Graphs	z,ZK	5
l l	es basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the cou		_
	lity of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic si of characteristic 2). Furher the course contains basic notions and their applications from graph theory.		
A8B01LAG	Linear Algebra	Z,ZK	7
· ·	roductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear independent	,	d coordinates)
and matrices (dete	rminants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geometropy product and cross product).	try in n-space (in	cluding dot
A8B01MC1	Mathematics-Calculus1 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	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. ['] series and power series with application to Taylor and Fourier series.	Other part conta	nins function
A8B01MCT	Mathematics-Complex Variable and Integral Transforms	Z,ZK	7
A8B01OGT	Optimization and Game Theory	Z,ZK	4
A8B14ADP	Algorithm Development and Programming	Z,ZK	5
Course objective: Int	roduction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C program	mming language	, Syntax and
semantics. Basic s	kills of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, paramete	er passing, array	s, pointers,
structures, compila	tion and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr	ogramming and	debugging.
A8B17CAS	Computer Algebra Systems (CAS)	Z	2
A8B17EFC	Electrical Field and Circuits	KZ	4
A8B17ELD	Electrodynamics	Z,ZK	5
planewaves, introduc	D (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decomposition es radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The theory of visuals also shown. The course ends with wave scattering. The knowledge gained in this course is needed for number of specialized materials.	wave guides and	
A8B17EMTA	Electromagnetic Field Theory	Z,ZK	7
	nted with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides si	•	1 -
	oduces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained	_	
the subse	quent course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize	ed master course	s.
A8B31AAC	Analog and Active Circuits	Z,ZK	6
TI II . A E O D O A .			
The subject AE8B31/	AAC is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block	s of electronic sy	stems based
·	on basic semiconductor electronic components operating in linear and non-linear modes.		
A8B31CIR	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory	Z,ZK	8
A8B31CIR The subject AE8B310	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects,	Z,ZK an electric circui	8 t is presented
A8B31CIR The subject AE8B310 as a special quasistat	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects.	Z,ZK an electric circui s of actual energy	8 t is presented y interactions.
A8B31CIR The subject AE8B310 as a special quasistat The subject is specif	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, tionary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds ically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and analysis.	Z,ZK an electric circui s of actual energy ysis methods of	8 t is presented y interactions. linear circuits
A8B31CIR The subject AE8B310 as a special quasistat The subject is specif	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects, it is passed on general physical nature of electromagnetic effects.	Z,ZK an electric circui s of actual energy ysis methods of terization is appl	8 t is presented y interactions. linear circuits
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A8B31CIR The subject AE8B310 as a special quasistal The subject is specif working in steady an	on basic semiconductor electronic components operating in linear and non-linear modes. Circuit Theory CIR is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects, itionary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kinds ically oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and analyd transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? charactransfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems Data Networks Theory Digital Signal Processing	Z,ZK an electric circui s of actual energy ysis methods of i terization is appl theory.	8 t is presented y interactions. linear circuits ied on circuit
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A8B38EME	Electronic Measurements	KZ	4
The course is focuse	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e	lectronics, telecom	munications
400000010	and radio communications.		
A8BPROJ2	Project Differencial Equations and Numerical Analysis	Z Z,ZK	2
B0B01DRN	Differencial Equations and Numerical Analysis ces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth		
stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view.			
B0B01PST	Probability and Statistics	Z,ZK	7
B0B16ET1	Ethic 1	KZ	4
Aim of this subject is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situations of 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.			
B0B16FI1	Philosophy 1	KZ	4
We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics.			
B0B16FIL	Philosophy	ZK	2
We deal with the	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy.	ophy and connecti	on of old
philosophical thoughts with recent problems of science, technology, economics and politics.			
B0B16HI1	History 1	KZ	4
B0B16HT1	History of science and technology 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
B0B39GRT	Graphical Design	KZ	5
The course grants an overview of graphical design and typography. It includes also a practical training in creating graphical design of electronical documents and hand drawing.			
B2B02FY1 Physics 1 Z,ZK 8 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The 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			
D0D00E)/0	consecutive course Physics 2.	7.71	
B2B02FY2	Physics 2	Z,ZK	7
The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of 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 optical waves are the subjects of the following section. Quantum mechanics and			
nuclear physics will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such modern areas as robotics,			
computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices.			
B3B04PSA	Academic Writing	KZ	2
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,			
B6B04PRE	reports, protocols, articles, etc. Students will be acquainted with the main principles of writing professional texts. Presentation	KZ	3
BBAP15	Bachelor thesis	Z	15
BE9M04AKP	Academic Writing	KZ	2
	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		
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.		
BE9M04PRE	Presentation Skills	KZ	2
The overall aim of this course is to develop communication and language skills in order to plan and deliver an effective presentation. Students will be taken systematically through the key stages of giving presentations, from planning and introducing to concluding. Students are guided, using interactive methods, to communicate their thoughts and ideas in a logical			
and structured order - and in as brief or succinct a way as possible. Emphasis is placed on independent, critical thinking and the correct formulation of presenting ideas; throughout			
this course students will practice skills that will enable them to become better speakers and presenters.			
BEZB	Safety in Electrical Engineering for a bachelor's degree	Z	0
	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operatio		
contains funda	mentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to world	on electrical equi	pment.
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 Paster's Office of the CZLL Safety is considered and of the basis duties of all employees and students. The knowledge of Health and Occupational Safety			
willion was provide	d by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of He	zaitii aiiti ∪ccupati	Julai Salety

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regulations forms an integral and permanent part of qualification requirements. This program is obligatory.