Recomended pass through the study plan

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

Faculty/Institute/Others: 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: Welcome page Type of study: unknown 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 ser	mester: 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 Stanislav Vítek, Radek Havlí ek, Ji í Zd nek Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	5	2P+2C	Z	Ρ
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, Jakub Rondoš Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
A8B01MC1	Mathematics-Calculus1 Martin K epela, Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
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
A8B01CAS	Computer Algebra Systems (CAS)	Z	2	1P+1C	Z	PO
A8B32IES	Introduction to Electronic Systems Stanislav Vítek, Pavel Hazdra, Zbyn k Škvor, Pavel Zahradník, Jan Sýkora, Ji í Hospodka Zbyn k Škvor Zbyn k Škvor (Gar.)	Z	2	0P + 2L	Z	PO
BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/134			V

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A0B04B2Z	English language B2-exam Pavla Péterová	Z,ZK	0	0C	Z,L	Р
A8B01DEN	Differential Equations&Numerical Methods	Z,ZK	7	4P+2C	L	Р
A8B02PH1	Physics 1	Z,ZK	7	4P+2L	L	Р
A8B01MCM	Mathematics-Calculus m-D Martin Bohata, 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	PO
A8B31ELE	Elements of Electronics Ivan Zemánek	KZ	4	2P	L	PO

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
A8B02PH2	Physics 2	Z,ZK	7	4P+2L	Z	Р
A8B01MCT	Mathematics-Complex Variable and Integral Transforms Martin Bohata, Hana Tur inová Martin Bohata Martin Bohata (Gar.)	Z,ZK	7	4P+2S	Z	Р
A8B01PSI	Probability, Statistics and Information Theory	Z,ZK	6	4P+2S	Z	Р
A8B17EMT	Electromagnetic Field Theory Lukáš Jelínek	Z,ZK	8	4P+2S	Z	PO
BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/134			V

Number of seme	ester: 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 Martin Bohata (Gar.)	Z,ZK	4	3P+1S	L	Ρ
A8B34SST	Solid State Physics Jan Voves Jan Voves Jan Voves (Gar.)	Z,ZK	4	3P+1C	L	PO
A8B37SAS	Signals and Systems Jan Sýkora, Karel Fliegel, Pavel Puri er Karel Fliegel Jan Sýkora (Gar.)	Z,ZK	8	4P+2C	L	PO
A8B31CIR	Circuit Theory Ji í Hospodka Ivan Zemánek Ivan Zemánek (Gar.)	Z,ZK	8	4P+2S	L	PO
BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/134			V

Number of seme	ster: 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 Ji í Hospodka (Gar.)	Z,ZK	6	3P+2S	Z	PO
A8B37DCM	Digital Communications Jan Sýkora	Z,ZK	5	4P+0C	Z	PO
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 Pavel Hazdra (Gar.)	Z,ZK	6	3P+2L	Z	PO
A8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2	0P + 2C	Z	PO
B6B32PSI	Computer Networks Tomáš Van k, Zbyn k Kocur, Leoš Bohá Ján Ku erák Leoš Bohá (Gar.)	Z,ZK	5	2P + 2C + 3D	Z	PO
BOESHEM	Humanitní, ekonomicko-manažerské p edm ty BE9M04AKP,B3B04PSA, (see the list of groups below)		Min/Max 8/134			V

Number of semes	ster: 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
ABAP9	Bachelor thesis	Z	9	28s	L	Р
A8B17ELD	Electrodynamics Zbyn k Škvor, Lukáš Jelínek Lukáš Jelínek (Gar.)	Z,ZK	5	3P+1S	L	PO
A8B38EME	Electronic Measurements Jan Holub, Jakub Svatoš Jakub Svatoš Jan Holub (Gar.)	KZ	4	2P+1L	L	PO
A8B35FCS	Feed-Back Control Systems	Z,ZK	6	4P+2L	L	PO
A8B37SSP	Statistical Signal Processing Jan Sýkora, Pavel Sovka Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	4P+0C	L	PO

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 specification	courses and on see here o	codes of members of this r below the list of courses)	Comp	letion	Credits	Scope	Semester	Role
BOESH	IEM	Humanitní, eko	onomicko-ma	nažerské p edm ty			Min/Max 8/134	Σ.		v
BE9M04AKP	Academic	Writing	B3B04PSA	Academic Writing	A	0B04G/	A			
A0B04KA	English Co	onversation 2	A0B04KA2	English Conversation 2	A	0B04O	A Te	chnical Eng	lish Course	
A0B04C2Z	Czech lang	guage 2	A0B04C2L	Czech language 2	A	0B04CI	N			
A0B04CIN2	Chinese La	anguage 2	A0B16EPD	Business economics	В	0B16E1	T1 Et	hic 1		
B0B16FIL	Philosophy	/	B0B16FI1	Philosophy 1	A	0B04KF	-1 Fr	ench convei	rsation 1	
A0B04KF2	French cor	versation 1	A0B04F1	French language 1	A	0B04F2	2 Fr	ench langua	age 2	
A0B04F3	French Lar	nguage 3	B0B16HTE	History of technology and econom	В	0B16H	Г1 Hi	story of scie	ence and techno	olog
B0B16HI1	History 1		A0B04JAP	Japanese	A	0B04JA	.P2 Ja	panese 2		
A1B16MME	Macro and	Microeconomics	B0B16MPS	Psychology	A	0B04G	N Ge	erman Gram	nmar	
A0B04KN	German C	onversation	A0B04KN2	German conversation 2	A	0B04N1	I Ge	erman langu	lage 1	
A0B04N2	German la	nguage 2	A0B04N3	German language 3	A	0B04O	N Pr	ofessional C	Serman	
BE9M04PRE	Presentation	on Skills	B6B04PRE	Presentation	A	0B16PF	RS Pr	esentation s	skills	
A0B04CAE1	Certificate	of Advanced English	A0B04CAE2	Certificate of Advanced English	A	0B04CA	AE3 Ce	ertificate of A	Advanced Engli	sh
A0B04FCE1	FCE 1		A0B04FCE2	FCE 2	A	0B04F0	CE4 FC	CE4		
A0B04FCE3	FCE 3		A0B04PZP	Preparation for stay in Germany	B	0B16M	PL Ps	sychology fo	r managers	
A0B04RET	Rhetoric		A0B04KR2	Russian conversation 2	A	0B04R1	l Ri	ussian langu	lage 1	
A0B04R2	Russian la	nguage 2	A0B04R3	Russian language 3	A	0B04R4	1 Ri	ussian langu	iage 3	
A0B04KS1	Spanish co	onversation 1	A0B04KS2	Spanish conversation 2	A	0B04S1	Sp	banish langu	lage 1	
A0B04S2	Spanish la	nguage 2	A0B04S3	Spanish language 3	A	0B04S4	l Sp	anish Lang	uage 4	
A0B04CA	Technical I	English for Pre-Interm	A003TV	Physical Education			,			

List of courses of this pass:

Code	Name of the course	Completion	Credits
A003TV	Physical Education	Z	2
A0B04B2Z	English language B2-exam	Z,ZK	0
A0B04C2L	Czech language 2	Z	2
The cours	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 cours	e is aimed at foreign students studying in Czech, it further develops their language knowledge and skills to meet the needs of technic	al university stude	nts
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
The aim of the cou	rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers uni	ts 1-4. Studying for	CAE helps
you to improve you	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 t	he language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be abl	le 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 ta	•	•
as well as by empl	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	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
	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		
-	he language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able		
	es. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses ta	-	-
as well as by empl	byers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. If	•	t necessary
	for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester	⊃r	
			-
A0B04CAE3	Certificate of Advanced English CAE 3	Z	2
	Certificate of Advanced English CAE 3 rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	Z 9 - 12. Studying fo	
The aim of the cou	Certificate of Advanced English CAE 3	Z 9 - 12. Studying fo ntexts.	r CAE helps
The aim of the cou A0B04CIN	Certificate of Advanced English CAE 3 rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co	Z 9 - 12. Studying fo ntexts. Z	r CAE helps
The aim of the cou	Certificate of Advanced English CAE 3 se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co Chinese Language 2	Z 9 - 12. Studying fo ntexts. Z Z	r CAE helps
The aim of the cou A0B04CIN	Certificate of Advanced English CAE 3 rse is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co	Z 9 - 12. Studying fo ntexts. Z	r CAE helps
The aim of the cou A0B04CIN A0B04CIN2	Certificate of Advanced English CAE 3 se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of co Chinese Language 2	Z 9 - 12. Studying fo ntexts. Z Z	r CAE helps 2 2

A0B04FCE1			
The course is oir	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 mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.		
A0B04FCE2	FCE 2	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro	pean Language	1
	mproving 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
	ed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Comr uages (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.		
A0B04FCE4	FCE4	Z	2
The course is ain	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro mproving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.		
A0B04GA		Z	2
1	urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract	course is mean	1
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04JAP2	Japanese 2	Z	2
A0B04KA	English Conversation 2	Z	2
	gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.		1
A0B04KA2	English Conversation 2	Z	2
	gned for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they a	already know, as	
new words and pl	nrases, to communicate on a variety of topics and themes. The course is generally designed as a follow-up to the Conversation One presented there; however, attending Conversation One is not a pre-requisite. This course is not designed for beginners.	course, building	on the skills
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
	•		
	Spanish conversation 2		
A0B04KS2	Spanish conversation 2 German language 1	Z	2
A0B04KS2 A0B04N1	German language 1	Z Z	2
A0B04KS2 A0B04N1 A0B04N2	German language 1 German language 2	Z Z Z	2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3	German language 1 German language 2 German language 3	Z Z	2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig	German language 1 German language 2	Z Z Z Z z ents to be able to	2 2 2 2 2 communicat
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and	Z Z Z Z z ents to be able to	2 2 2 2 2 communicat
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article.	Z Z Z Z ents to be able to practicing via 3 d	2 2 2 2 communica
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German	Z Z Z Z ents to be able to practicing via 3 of Z	2 2 2 2 communica different type
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP	German language 1 German language 2 German language 3 Technical English Course Joned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany	Z Z Z Z ents to be able to practicing via 3 of Z Z	2 2 2 2 2 2 communica different type 2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is design bout technical sub A0B04ON A0B04PZP A0B04R1	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1	Z Z Z Z ents to be able to practicing via 3 o Z Z Z	2 2 2 2 2 communica different type 2 2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is design bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1 Russian language 2	Z Z Z z ents to be able to practicing via 3 of Z Z Z Z Z	2 2 2 2 2 2 communica different type 2 2 2 2 2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2 A0B04R3	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1 Russian language 2 Russian language 3	Z Z Z Z ents to be able to practicing via 3 d Z Z Z Z Z Z	2 2 2 2 2 communica different type 2 2 2 2 2 2 2 2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2 A0B04R3 A0B04R4 A0B04RET The objective of t	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1 Russian language 2 Russian language 3 Russian language 3 Rhetoric ne subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of th ject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologi	Z Z Z z ents to be able to practicing via 3 of Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 2 2 2 communica different type 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2 A0B04R3 A0B04R4 A0B04RET The objective of th achelors. This sub	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1 Russian language 2 Russian language 3 Russian language 3 Rhetoric ne subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of th ject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologi so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	Z Z Z Z ents to be able to practicing via 3 of Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 2 2 2 2 2 communica different type 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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A0B04KS2 A0B04N1 A0B04N2 A0B04N3 A0B04OA his course is desig bout technical sub A0B04ON A0B04PZP A0B04R1 A0B04R2 A0B04R3 A0B04R4 A0B04RET The objective of tl achelors. This sub A0B04S1 A0B04S2	German language 1 German language 2 German language 3 Technical English Course Ined for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and of texts: an abstract, a short explanatory article, and a research article. Professional German Preparation for stay in Germany Russian language 1 Russian language 2 Russian language 3 Russian language 3 Rhetoric ne subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of th ject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychologi so that the students can create a good image. The course "Retorika" provides an introduction to this subject. Spanish language 1 Spanish language 2	Z Z Z z sents to be able to practicing via 3 of Z Z Z Z Z Z z e prospective en cal barriers for pu Z Z Z	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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		7 71/	
A8B01AMA	Advanced Matrix Analysis The course covers advanced topics of linear algebra, in particular matrix factorizations and construction of matrix functions	Z,ZK	4
A8B01CAS	Computer Algebra Systems (CAS)	Z	2
	ystems (CAS) Maple, Matlab and Mathematica are used to demonstrate basic mathematical concepts that students encounter in eminars provide both computational and graphical examples with particular emphasis on problems whose solution without CAS		
A8B01DEN	Differential Equations&Numerical Methods	Z,ZK	7
	troduction to differential equations and numerical methods. We survey major types of ordinary differential equations and introduce	, ,	ial equation
1	For common problems (roots, systems of linear equations, ODE?s) we will show basic approaches for solving them numerica	-	1
A8B01DMG	Discrete Math.& Graphs	Z,ZK	5
	s basic notions from discrete mathematics directed to those topics useful for electrical engineering studies. The content of the co r of sets, binary relations with emphasis to equivalence relations and partial ordes'; integers, relation modulo n'; basic algebraic s		
	of characteristic 2). Further the course contains basic notions and their applications from graph theory.		
A8B01LAG	Linear Algebra	Z,ZK	7
	ductory topics of linear algebra. The main focus is on the related notions of linear spaces and linear transformations (linear independent		
and matrices (determ	inants, inverse matrix, matrix of a linear mapping, eigenvalues). Applications include solving systems of linear equations, geome product and cross product).	etry in n-space (in	cluding dot
A8B01MC1	Mathematics-Calculus1	Z,ZK	7
	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	2,213	1
A8B01MCM	Mathematics-Calculus m-D	Z,ZK	7
1	introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals.		ins function
	series and power series with application to Taylor and Fourier series.		
A8B01MCT	Mathematics-Complex Variable and Integral Transforms	Z,ZK	7
A8B01OGT	Optimization and Game Theory	Z,ZK	4
A8B01PSI	Probability, Statistics and Information Theory neory, mathematical statistics, information theory, and coding. Includes descriptions of probability, random variables and their dis	Z,ZK	6
	n variables. Basics of mathematical statistics: Point and interval estimates, methods of parameters estimation and hypotheses te		
	Basic notions and results of the theory of Markov chains. Shannon entropy, mutual and conditional information.	ing, inder oqua	
A8B02PH1	Physics 1	Z,ZK	7
	vsics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first		
	he electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynami		-
	igid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they nechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stu-		
	dy of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course		
	consecutive course Physics 2.	io required for an	
A8B02PH2	Physics 2	Z,ZK	7
-	s closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of physics	-	
	ving topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to s has a universal character in spite of the waves character. Particular types of waves, such as acoustic or electromagnetic waves a		
	anics physics will complete the student's general education in physics. The knowledge gained in this course will help to the student	-	
	accountered during their studies and will allow them to understand the principles of novel technologies and functioning of new electronic during the studies and functioning of new electronic during the studies and studies are studies and studies and studies are studies and studies are studies are studies and studies are s		
A8B14ADP	Algorithm Development and Programming	Z,ZK	5
	duction to algorithm design of basic and more advanced computer tasks, Digital computer structure, Introduction to the C progra		
	Is of procedural programming paradigm, variable, data type, declaration, operators, expressions, statements, functions, paramet		
A8B17ELD	on and debugging methods, preprocessor, conditional compilation, standard libraries, specific of embedded computer systems pr		5
	Electrodynamics (electrodynamics) is a follow up of the course AEB17EMTA (Electromagnetic field theory). The course starts with a decompositi	Z,ZK	-
	radiation of waves and guides student through the interaction of electromagnetic waves with material boundaries. The theory of	-	
lines is	also shown. The course ends with wave scattering. The knowledge gained in this course is needed for number of specialized manual states and the special states and the special states are special states and the special states are special states and the special states are special s	aster courses.	
A8B17EMT	Electromagnetic Field Theory	Z,ZK	8
	ed with physics fundaments of the electromagnetic theory and with its mathematical description. Particularly, the course guides s	-	
•	uces coupling between time varying fields and it is ends with an introduction to an electromagnetic wave. The knowledge gained ient course AE8B17ELD (Electrodynamics), for the course of circuit theory, theory of semiconductors and a number of specialize		
A8B31AAC	Analog and Active Circuits	Z,ZK	6
I	C is oriented on presentation, matematical description, analysis and sythesis of basic analogue active circuits and function block	, ,	-
	on basic semiconductor electronic components operating in linear and non-linear modes.		
A8B31CIR	Circuit Theory	Z,ZK	8
	R is a complet systematic presentation of electrical circuit theory. It is based on general physical nature of electromagnetic effects,		-
	nary case of electromagnetic field. It defines basic circuit quantities (voltage, current) and basic circuit elements modeling all kind ally oriented on linear electrical circuit (analogue LTI systems), it presents basic priciples and theorems of circuit theory, and anal		
	transient states (modes), respectively. The time domain and frequency domain analysis is strictly differentiated. "System? charac	-	
	ansfer properties analysis, stability analysis, and feedback theory. At the end the subject deals with basis of discrete LTI systems		
A8B31ELE	Elements of Electronics	KZ	4
-	E (B-ELE) is a free continuation of the subject AE8B32IES (B-IES), now with technical contents yet, that provides elementary be		
	and explains common contexts among electrical phenomena, that are important for subsequent specialized subjects (for instance AE B-EMT), AE8B31SAS (B-SAS).). The subject education uses relatively simple, elementary mathematical and physical methods		
	tage. The subject provides basis of: - electromagnetic field and electrical circuit theory - semiconductor components theory - sign		
	and microprocessor technique.	- , · · · · · ·	,
A8B32DCL	Digital Signal Processing and Communication Laboratory	Z	2
	al laboratory jointly practicing theoretical foundations gained in Digital Signal Processing (B-DSP), Digital Communications (B-D		
	emonstrates how these areas together allow designing a complex functional system. During the course, students will design a se	-	
	owledge from the all above stated courses allowing at the end to build complex demonstration signal processing and communication	auon systems. Th	H RADOLATOL

uses a computer b	ased simulation system platform (e.g. Matlab) to practically verify the system functionality and its performance. It also demonstrates how SW tools can be used in designing the system.	various CAD and m	nathematical
A8B32DSP	Digital Signal Processing This subject is focused upon basics in the digital signal processing, systems and methods for digital signal processing.	Z,ZK	5
A8B32IES	Introduction to Electronic Systems	Z	2
	n subject with syllabus composed of a set of demonstrations and measurements. Its content is divided into several themes. Students	1	1
based on their p	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.	he next goal is to g	jet an idea
A8B34EOD	Electronic and Optoelectronic Devices	Z,ZK	6
This course in	roduces the basic theory, principles of operation and properties of electronic and optoelectronic devices. Physical principles of opera	tion, device structu	ires and
characteristics a	e explained together with adequate models for small- and large-signal. Basic applications in analogue and digital electronics are exa	mined. In seminars	s and labs,
students are introc	uced to basic principles of device simulation, measurement of device characteristics and extraction of device parameters. Operation of	of electron devices	in electronic
	systems is then analyzed using the PSpice simulator.	1	1
A8B34SST	Solid State Physics d on solid state physics including some parts of statistical physics. The subject informs about basic properties of materials used in electron	Z,ZK	4
		1	1
A8B35FCS	Feed-Back Control Systems e of automatic control. Introduction to basic concepts and properties of dynamic systems of physical, engineering, biological, econon	Z,ZK	6
	nciples of feedback and its use as a tool for altering the behavior of systems and managing uncertainty. Classical and modern method		
	systems. Students specialized in systems and control will build on these ideas and knowledge in the advanced courses to follow. Stu	-	-
	programs will find out that control is a inspiring, ubiquitous and entertaining field worth of a future cooperation.		
A8B37DCM	Digital Communications	Z,ZK	5
	es fundamentals of digital communications theory: modulation, classical coding, channel models, and basic principles of decoding. TI		-
	eoretical lines which allow to reveal all inner connections and principles. This allows students to develop the knowledge and use it in a		-
construction	of the communication systems. The course provides a necessary fundamental background for subsequent more advanced commun	ications theory cou	urses.
A8B37DIT	Digital Design	Z,ZK	5
The goal of this co	urse is to introduce the philosophy of digital circuits' design, to provide formal description of combinational and sequential logical circuit	its, their functional	blocks. Both
mathematical and	I functional description, as well as minimization algorithms for output and transient functions of digital components and circuits is pres	sented. Karnaugh r	maps, latch
elements, fi	nite-state Mealy and Moore machines are the essential part of the content. The subject matter discussed will be tested on the typical	design of digital cir	rcuits.
A8B37SAS	Signals and Systems	Z,ZK	8
Continuous and dis	screte time signal representation in time and frequency domain. Stochastic signals and their parameters. Elementary principles of analogical sectors are set of the sectors	og modulations wit	h their noise
	conditions. Fundamental course for further study focusing on communication, measurement and signal processing.		1
A8B37SSP	Statistical Signal Processing	Z,ZK	6
	es fundamentals in three main domains of the statistical signal processing: 1) estimation theory, 2) detection theory, 3) optimal and a	-	
signal processing	s a core theory with many applications ranging from digital communications, audio and video processing, radar and radio navigation, evaluation, etc.	measurement and	experiment
		· · · · · · · · · · · · · · · · · · ·	1
A8B38EME	Electronic Measurements	KZ	4
	Electronic Measurements ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e and radio communications.	1	1 -
The course is focus	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e and radio communications.	electronics, telecom	munications
The course is focus ABAP9	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e and radio communications. Bachelor thesis	1	1 -
The course is focus ABAP9 B0B16ET1	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e and radio communications.	electronics, telecom	9 4
The course is focus ABAP9 B0B16ET1 Aim of this subject	ed to metrology fundamentals and uncertainty apparatus. It explains both elementary principles and selected advanced methods used in e and radio communications. Bachelor thesis Ethic 1	Electronics, telecom Z KZ uations of human li	9 4 fe. Essential
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Safety in Electrical Engineering for a Bachelor's Degree

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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.

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 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.
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For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-01, time 07:56.