Study plan

Name of study plan: Otev ené elektronické systémy - Integrované elektronické systémy

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: 74

Elective courses credits: 46 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 25

The role of the block: P

Code of the group: MDIP

Name of the group: Diploma Thesis

Requirement credits in the group: In this group you have to gain at least 25 credits (at most 400)

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

Credits in the group: 25 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
A0M13DIP	Diploma Thesis	Z	25	36S	L	Р
A0M14DIP	Diploma Project	Z	25		L	Р
A0M15DIP	Master's thesis	Z	25	36s	L	Р
A0M16DIP	Diploma thesis	Z	25	36s	L,Z	Р
A0M17DIP	Diploma Thesis	Z	25	36s	L	Р
A0M31DIP	Diploma Thesis	Z	25		L	Р
A0M33DIP	Diploma Thesis	Z	25	36S	L	Р
A0M34DIP	Diploma Thesis	Z	25	36C	L	Р
A0M35DIP	Diploma Thesis	Z	25	36S	L	Р
A0M37DIP	Diploma Thesis	Z	25	36s	L	Р
A0M38DIP	Diploma Thesis	Z	25	0P+36C	L	Р
A0M39DIP	Master Thesis	Z	25		L	Р
A0M36DIP	Diploma Thesis	Z	25	14s	L,Z	Р
ADIP25	Diploma Thesis	Z	25	36s	L	Р

Characteristics of the courses of this group of Study Plan: Code=MDIP Name=Diploma Thesis

	Administration of the dear of the group of clearly from Code-main frame-pipelina frame							
A0M13DIP	Diploma Thesis	Z	25					
Independent final comp	prehensive work for the Master's degree study program. A student will choose a topic from a range of topics related to his or h	ner branch of stud	y, which will be					
specified by branch de	partment or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensive	e final examination	n.					
A0M14DIP	AOM14DIP Diploma Project Z 25							
A0M15DIP	Master's thesis	Z	25					
A0M16DIP	Diploma thesis	Z	25					
A0M17DIP	Diploma Thesis	Z	25					
Independent final comp	prehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will					
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation. Diploma					
projects deals with mic	rowave technique, antennas, propagation, optical communications, EMC, and medical applications.							
A0M31DIP	Diploma Thesis	Z	25					
A0M33DIP	Diploma Thesis	Z	25					

A0M34DIP	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation.
A0M35DIP	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation.
A0M37DIP	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation.
A0M38DIP	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation.
A0M39DIP	Master Thesis	Z	25
A0M36DIP	Diploma Thesis	Z	25
ADIP25	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his	or her branch of s	tudy, which will
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	nsive final examina	ation.

Name of the block: Compulsory courses of the specialization

Minimal number of credits of the block: 45

The role of the block: PO

Code of the group: MOESPO3

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 45 credits

Requirement courses in the group: In this group you have to complete at least 9 courses

Credits in the group: 45 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
A8M31AAS	Advanced Analog Systems	Z,ZK	5	2P+2S	Z	PO
A8M34MST	Microsystems	Z,ZK	5	2P+2L	L	РО
A8M38MS	Modern Sensors	Z,ZK	5	2P+2L	Z	РО
A8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5	2P+2C	L	РО
A8M34ICD	IC Design Ji í Jakovenko	Z,ZK	5	2P+2C	L	РО
A8M34OEP	Planar integrated optics Vít zslav Je ábek, Václav Prajzler Václav Prajzler (Gar.)	Z,ZK	5	2P+2L	Z	РО
A8M36ACA	Advanced Computer Architectures	Z,ZK	5	2P+2L	Z	РО
A8M34ICS	IC Structures Ji í Jakovenko, Vladimír Janí ek Ji í Jakovenko Ji í Jakovenko (Gar.)	Z,ZK	5	2P+2C	Z	РО
A8M38ASP	Analog Signal Processing and Digitalization Michal Janošek, Jan Holub Michal Janošek Michal Janošek (Gar.)	Z,ZK	5	2P+2L	Z	РО

Characteristics of the courses of this group of Study Plan: Code=MOESPO3 Name=Compulsory subjects of the branch

A8M31AAS	Advanced Analog Systems	Z,ZK	5
A8M34MST	Microsystems	Z,ZK	5
A8M38MS	Modern Sensors	Z.ZK	5

Overview of basic and advanced knowledge of sensors and extension by knowledge needed for design and development of sensor systems. The content reflects perspective principles of sensors as well as methods of complex sensor signal conditioning and processing. Sensors and sensor systems are shown in specific applications, the design procedures are shown in case studies. Labs in the first part are focused on complex characterization of sensor parameters, in the second part on independent design using FEM modeling and experimental verification.

A8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5
A8M34ICD	IC Design	Z,ZK	5
A8M34OEP	Planar integrated optics	Z,ZK	5

he subject describes theoretical and technological principles and design of planar integrated optics and optoelectronics as optical dividers, The students get acquainted with the principles of the light propagation in planar waveguide and with basic devices and structures of integrated optics and optoelectronics as coupling elements, optical microresonators, planar optical transmitters an receivers with SS-LD, WG-PD. In the course are integrated devices and structures for telecommunication for multiplexing and signal processing. There are optical elements for physical and chemical sensor application and basic important measurement and diagnostic methods.

A8M36ACA	Advanced Computer Architectures	Z,ZK	5
A8M34ICS	IC Structures	Z,ZK	5
Chudont loors main dos	in mothedelegies of engles, digital and enterlastronic integrated eveterns. Detailed description of the technological process	for the IC product	tion, CMOC

Student learn main design methodologies of analog, digital and optoelectronic integrated systems; Detailed description of the technological process for the IC production; CMOS technologies and its advanced sub-micron trends; IC chip topology, layout and design rules; Technology of micro-electro-mechanical systems MEMS.

A8M38ASP Analog Signal Processing and Digitalization

The course is dedicated to methods for preprocessing, digitalization and reconstruction of continuis signals. It is focused to the methods for achieving of high precision of transmission and suppression of spurious components. The laboratory exercises are divided into two parts: the first part is classical tasks; the second one is individual project of design of typically data acqusition system. The teaching is supported by the CAD system for measuring circuits

Name of the block: Elective courses Minimal number of credits of the block: 4

The role of the block: V

Code of the group: MOESH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 20)

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

Credits in the group: 4 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
B0M16FI2	Philosophy 2	Z,ZK	4	2P+2S	L	V
B0M16HT2	History of science and technology 2	Z,ZK	4	2P+2S	L	V
B0M16HSD	History of economy and social studies	Z,ZK	4	2P+2S	L	V
B0M16MPS	Psychology	Z,ZK	4	2P+2S	Z,L	V
B0M16TE1	Theology	Z,ZK	4	2P+2S	L	V

Characteristics of the courses of this group of Study Plan: Code=MOESH Name=Humanities subjects

B0M16FI2	Philosophy 2	Z,ZK	4	
The course is oriented	on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.			
B0M16HT2	History of science and technology 2	Z,ZK	4	
This subject traces his	This subject traces historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate students' interest in the history and			
traditions of the subject	t while highlighting the developments in technical education and professional organizations, the process of shaping scientific	life and the influe	nce of technical	

engineers

B0M16HSD	History of economy and social studies	Z,ZK	4
This subject deals with	the history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech	political represen	tation, its aims
and achieved recylled as	well as the assigl, assessment, technical and cultural development and assignment of the verieus of the verieus		

B0M16MPS	Psychology	Z,ZK	4
B0M16TE1	Theology	Z,ZK	4

This subject provides to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the basic theologic disciplines are gone through. The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who want to get know Christianity - religion from which graws our civilization up

Code of the group: MJK

Name of the group: Language courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0 Note on the group.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
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	V
AE0B04C0	Czech Language 0 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	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	*	V

Petra Juna Jennings Petra Juna Jennings (Gar.)		T	1	ı	1	<u> </u>	
Petra Juna Jennings Petra Juna Jennings (Gar.)	A0B04F1	French language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04JAP Japanese	A0B04F2		Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings (Gar.) Z Z Z Z Z Z Z Z Z	A0B04F3		Z	2	2C	*	V
A0B04GN German Grammar Petra Juna Jennings Petra Juna Jennings Gar.	A0B04JAP		Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings (Gar.) Z Z Z Z Z Z Z Z Z	A0B04GN	German Grammar	Z	2	2C	Z,L	٧
A0B04R12	A0B04KN		Z	2	2C	Z,L	V
Petra Juna Jennings Petra Juna Jennings (Gar.) Z Z Z Z Z Z Z Z Z	A0B04KN2		Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings Gar.	A0B04N1		Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings (Gar.) Z Z Z Z Z Z Z Z Z	A0B04N2	German language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
Petra Juna Jennings Petra Juna Jennings Gar.	A0B04N3		Z	2	2C	*	V
A0B04CAE2 Certificate of Advanced English CAE 2 Pavlar Péterová Petra Juna Jennings (Gar.) Z 2 2C Z,L V	A0B04ON		Z	2	2C	Z,L	V
A0B04CAE3	A0B04CAE1		Z	2	2C	Z,L	V
Petra Juna Jennings	A0B04CAE2	Certificate of Advanced English CAE 2 Pavla Péterová Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04CAE4 Certificate of Advanced English 4 Pavla Péterová Z 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 FCE 4 FCE 3 Petra Juna Jennings Z 2 2C Z,L V A0B04FCE3 PCE 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 language 1 Z 2 2C * V	A0B04CAE3		Z	2	2C	Z,L	٧
A0B04FCE1 Petra Juna Jennings Z Z Z Z Z Z Z Z Z	A0B04CAE4	Certificate of Advanced English 4	Z		2C	Z,L	٧
A0B04FCE2 Petra Juna Jennings Z Z Z Z Z Z Z Z Z	A0B04FCE1		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 (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 Z 2 2C * V	A0B04FCE2	FCE 2	Z	2	2C	*	٧
A0B04PCES Petra Juna Jennings Z<	A0B04FCE4		Z	2	2C	Z,L	V
Petra Juna Jennings Petra Juna Jennings (Gar.) Z Z Z Z Z Z Z Z Z	A0B04FCE3	1	Z	2	2C	Z,L	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 Z 2 2C * V	A0B04PZP		Z	2	2C	*	٧
A0B04KR2	A0B04RET	Rhetoric	Z	2	2C	Z,L	٧
AOBO4R1 Russian language 1 7 2 2C * V	A0B04KR	1	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
Puccin Inguigo 2	A0B04R2	Russian language 2	Z	2	2C	*	V
A0B04R3 Russian language 3 Jitka Pinková Petra Juna Jennings (Gar.) Z 2 2C * V	A0B04R3	Russian language 3	Z	2	2C	*	V
A0B04R4 Russian language 3 Z 2 2C * V	A0B04R4		Z	2	2C	*	V
A0B04KS1 Spanish conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z 2 2C * V	A0B04KS1	Spanish conversation 1	Z	2	2C	*	V
Spanish convergation 2	A0B04KS2	Spanish conversation 2	Z	2	2C	*	V
A0B04S1 Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.) Z 2 2C * V	A0B04S1	Spanish language 1	Z	2	2C	*	V
A0B04S2 Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.) Z 2 2C * V	A0B04S2	Spanish language 2	Z	2	2C	*	V
A0B04S3 Spanish language 3 Petra Juna Jennings Petra Juna Jennings (Gar.) Z 2 2 V	A0B04S3	Spanish language 3	Z	2	2C	*	V
A0B04S4 Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.) Z 2 2C * V	A0B04S4	Spanish Language 4	Z	2	2C	*	V
	A0B04CA		Z	2	2C	L	V

Characteristics of the courses of this group of Study Plan: Code=MJK Name=Language courses

A0B04GA		Z	2
The aim of this course i	s to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. T	he course is mea	int mainly as a
supplement for students	s who have not yet passed the B2 examination and are interested in further study and additional practice.		
A0B04KA	English Conversation 2	Z	2
The course is designed	for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary the	y already know, a	is well as learn

new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.

A0B04OA	Technical English Course	Z	2
	for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare st		
•	matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English	and practicing via	3 different types
	hort explanatory article, and a research article.		
AE0B04C0	Czech Language 0	Z	2
	vards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of	-	
	out pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases ne	eeded for everyday	/ communication
during their stay in the C	zech kepublic.	7	
A0B04CIN		Z	2
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
A0B04JAP	Japanese	Z	2
A0B04GN	German Grammar	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
A0B04N1	German language 1	Z	2
A0B04N1	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
	to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers	=	
	uage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bas		
	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be a AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course		
	who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries	_	- 1
	Re CAE at British Council.	50. II 10 p 000.010 D.	
A0B04CAE2	Certificate of Advanced English CAE 2	Z	2
	to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers		
	uage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is bas	=	
the ability to use the lan	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be	able to understan	d and produce
texts of various types. C	AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for course	es taught and asse	essed in English
as well as by employers			
	who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countrie	es. It is possible bu	ut not necessary
for obtaining credit to ta	ke CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.		
for obtaining credit to tal A0B04CAE3	xe CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3	Z	2
for obtaining credit to tall A0B04CAE3 The aim of the course is	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers to	Z	2
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers upuage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.	Z unit 9 - 12. Studyir	2
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land A0B04CAE4	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers usuage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4	Z	2
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land A0B04CAE4 A0B04FCE1	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers upuage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4 FCE 1	Z unit 9 - 12. Studyir Z Z	2 ng for CAE helps
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land A0B04CAE4 A0B04FCE1 The course is aimed for	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers upuage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4 FCE 1 students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Eur	Z unit 9 - 12. Studyir Z Z ropean Language	2 ng for CAE helps 2 Frame. The
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your lang A0B04CAE4 A0B04FCE1 The course is aimed for course focuses on improve	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers upuage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4 FCE 1	Z unit 9 - 12. Studyir Z Z ropean Language	2 ng for CAE helps 2 Frame. The
for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your lang A0B04CAE4 A0B04FCE1 The course is aimed for course focuses on impro B2 ELF.	ce CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers to guage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4 FCE 1 students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euroving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtain	Z unit 9 - 12. Studyir Z Z ropean Language ning the required	2 Frame. The skills needed for
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A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0B04CA	Technical English for Pre-Intermediate	Z	2

Code of the group: MTV

Name of the group: Physical education

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
TVV	Physical education	Z	0	0+2	Z,L	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V
TVKLV	Physical Education Course	Z	0	7dní	L	V

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

TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKZV	Physical Education Course	Z	0
TVKLV	Physical Education Course	Z	0

Code of the group: MOESVOL

Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0

Note on the group:

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

List of courses of this pass:

Code	Name of the course	Completion	Credits
A0B04CA	Technical English for Pre-Intermediate	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2

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

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A0B04CAE2	Certificate of Advanced English CAE 2	Z	2

The aim of the course is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers units 5-8. Studying for CAE helps you to improve your language skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is based on realistic tasks and indicates the ability to use the language in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be able to understand and produce texts of various types. CAE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for courses taught and assessed in English as well as by employers who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries. It is possible but not necessary for obtaining credit to take CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.

A0B04CAE3	Certificate of Advanced English CAE 3	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	9 - 12. Studying for	CAE helps
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of cor	ntexts.	
A0B04CAE4	Certificate of Advanced English 4	Z	

		Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
0B04FCE1	FCE 1	Z	2
	students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the	l l	- Frame. Th
	ng all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta B2 ELF.		
0B04FCE2	FCE 2	Z	2
	students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the ng all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta B2 ELF.		
A0B04FCE3	FCE 3	Z	2
he course is aimed for s	tudents, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the CCEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phoneti obtaining the required skills needed for B2 CEFR.	·	
A0B04FCE4	FCE4	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 ng all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obta B2 ELF.		
A0B04GA		Z	2
he aim of this course is	o extend and complement grammatical patterns covered in other English courses that are intended for full-time students supplement for students who have not yet passed the B2 examination and are interested in further study and additional p	practice.	mainly a
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04KA	English Conversation 2	Z	2
e course is designed fo	r students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary to new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginnen	-	well as le
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
\0B04KN2	German conversation 2	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
A0B04N3	Technical English Course	Z	2
	students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare s		
	tter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English of texts: an abstract, a short explanatory article, and a research article.		
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
	Russian language 3	Z	2
A0B04R4	Rhetoric	Z	_
	Micionic		2
A0B04RET The objective of the subj	ect is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability enable the students to develop both spoken and written presentations, non verbal communication and remove the psychological so that the students can create a good image. The course "Retorika" provides an introduction to this subject.	of the prospective eng	gineers a
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A0M31DIP	Diploma Thesis	Z	25
A0M33DIP	Diploma Thesis	Z	25
A0M34DIP	Diploma Thesis		25
	orehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	er branch of stud	1
be specified by bra	anch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	ensive final exam	ination.
A0M35DIP	Diploma Thesis	Z	25
	orehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h		-
	anch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe		ination.
A0M36DIP	Diploma Thesis	Z	25
A0M37DIP	Diploma Thesis	Z	25
	orehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h		-
	anch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehension of the board of the boar		1
A0M38DIP	Diploma Thesis	Z	25
	prehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or hanch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe		=
A0M39DIP	Master Thesis	Z	25
A8M31AAS	Advanced Analog Systems	Z,ZK	5
A8M34ICD	IC Design	Z,ZK	5
A8M34ICS	IC Structures	Z,ZK	5
	esign methodologies of analog, digital and optoelectronic integrated systems; Detailed description of the technological process for	· ·	on; CMOS
A8M34MST	ogies and its advanced sub-micron trends; IC chip topology, layout and design rules; Technology of micro-electro-mechanical sys		
	Microsystems Nancelegtrapies and Nanctachnelegy	Z,ZK	5
A8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5
A8M34OEP	Planar integrated optics	Z,ZK	5
-	oretical and technological principles and design of planar integrated optics and optoelectronics as optical dividers, The students get n planar waveguide and with basic devices and structures of integrated optics and optoelectronics as coupling elements, optical n	-	
0 0	ers with SS-LD, WG-PD . In the course are integrated devices and structures for telecommunication for multiplexing and signal p		•
tranomittoro ari rocciv	elements for physical and chemical sensor application and basic important measurement and diagnostic methods.	roccooning. There	aro optioai
A8M36ACA	Advanced Computer Architectures	Z,ZK	5
A8M38ASP	Analog Signal Processing and Digitalization	Z,ZK	5
/ tolvioo/ tol			
The course is dedicated	to methods for preprocessing, digitalization and reconstruction of continuis signals. It is focused to the methods for achieving of	high precision of	transmission
	to methods for preprocessing, digitalization and reconstruction of continuis signals. It is focused to the methods for achieving of rious components. The laboratory exercises are divided into two parts: the first part is classical tasks; the second one is individual		
	rious components. The laboratory exercises are divided into two parts: the first part is classical tasks; the second one is individual		
A8M38MS	rious components. The laboratory exercises are divided into two parts: the first part is classical tasks; the second one is individual data acquisition system. The teaching is supported by the CAD system for measuring circuits.	Z,ZK	n of typically
A8M38MS Overview of basic and a of sensors as well as me	rious components. The laboratory exercises are divided into two parts: the first part is classical tasks; the second one is individual data acqusition system. The teaching is supported by the CAD system for measuring circuits. Modern Sensors dvanced knowledge of sensors and extension by knowledge needed for design and development of sensor systems. The content ethods of complex sensor signal conditioning and processing. Sensors and sensor systems are shown in specific applications, the	Z,ZK reflects perspect design procedure	5 ive principles
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