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:

note on the grot	ıþ.					
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

A0M13DIP	Diploma Thesis	Z	25
Independent final comp	rehensive work for the Master's degree study program. A student will choose a topic from a range of topics related to his or h	er 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 comprehensiv	e final examinatio	n.
A0M14DIP	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 d	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	sive 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	sive final examina	ation.	
A0M35DIP	Diploma Thesis	Z	25	
Independent final comprehensive 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 study, 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	sive 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	sive 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	sive 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	sive 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:

Note on the 9	roup.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
A8M31AAS	Advanced Analog Systems	Z,ZK	5	2P+2S	Z	РО
A8M34MST	Microsystems Michal Ko I, Miroslav Husák, Alexandr Laposa, Adam Bou a Miroslav Husák Miroslav Husák (Gar.)	Z,ZK	5	2P+2L	L	PO
A8M38MS	Modern Sensors Pavel Ripka, Antonín Platil, Michal Janošek Antonín Platil Antonín Platil (Gar.)	Z,ZK	5	2P+2L	Z	РО
A8M34NAN	Nanoelectronics and Nanotechnology Jan Voves Jan Voves (Gar.)	Z,ZK	5	2P+2C	L	РО
A8M34ICD	IC Design Ji í Jakovenko, Jan Novák Ji í Jakovenko Ji í Jakovenko (Gar.)	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, Josef Vedral Michal Janošek Josef Vedral (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 con	tent reflects persp	ective principles

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
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A8M34ICS IC Structures Z,ZK 5
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 Z,ZK

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 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, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life and the influence of technical engineers

B0M16HSD	History of economy and social studies	∣ ∠,∠K	4
This subject deals with	n the history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech	political represer	ntation, its aims

and acmeved results a	well as the social, economical, technical and cultural development and coexistence of the various ethnical groups.		
B0M16MPS	Psychology	Z,ZK	4
B0M16TF1	Theology	7 7K	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	*	V
A0B04CIN	Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V

A0B04KF1	French conversation 1	Z	2	2C	*	V
A0B04KF2	Petra Juna Jennings Petra Juna Jennings (Gar.) French conversation 1	Z	2	2C	*	V
A0B04F1	Petra Juna Jennings Petra Juna Jennings (Gar.) French language 1	Z	2	2C	*	V
A0B04F2	Petra Juna Jennings Petra Juna Jennings (Gar.) French language 2	Z	2	2C	*	V
A0B04F3	Petra Juna Jennings Petra Juna Jennings (Gar.) French Language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04JAP	Japanese	Z	2	2C	*	V
A0B04GN	Petra Juna Jennings Petra Juna Jennings (Gar.) German Grammar	Z	2	2C	Z,L	V
A0B04KN	Petra Juna Jennings Petra Juna Jennings (Gar.) German Conversation	Z	2	2C	Z,L	V
A0B04KN2	Petra Juna Jennings Petra Juna Jennings (Gar.) German conversation 2	Z	2	2C	*	V
A0B04N1	Petra Juna Jennings Petra Juna Jennings (Gar.) German language 1	Z	2	2C	*	V
A0B04N2	Petra Juna Jennings Petra Juna Jennings (Gar.) German language 2	Z	2	2C	*	V
A0B04N3	Petra Juna Jennings Petra Juna Jennings (Gar.) German language 3	Z	2	2C	*	V
A0B04ON	Petra Juna Jennings Petra Juna Jennings (Gar.) Professional German	Z	2	2C	Z,L	V
A0B04CAE1	Petra Juna Jennings Petra Juna Jennings (Gar.) Certificate of Advanced English CAE 1	Z	2	2C	Z,L	V
A0B04CAE2	Petra Juna Jennings Pavla Péterová (Gar.) Certificate of Advanced English CAE 2	Z	2	2C	Z,L	V
	Pavla Péterová Petra Juna Jennings (Gar.) Certificate of Advanced English CAE 3					
A0B04CAE3	Petra Juna Jennings, Pavla Péterova Petra Juna Jennings 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	FCE4	Z	2	2C	Z,L	V
A0B04FCE3	FCE 3 Petra Juna Jennings	Z	2	2C	Z,L	V
A0B04PZP	Preparation for stay in Germany Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04RET	Rhetoric Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	Z,L	V
A0B04KR	Russian conversation	Z	2	2C	Z,L	V
A0B04KR2	Russian conversation 2	Z	2	2C	*	V
A0B04R1	Russian language 1 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R2	Russian language 2 Jitka Pinková Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04R3	Russian language 3 Jitka Pinková	Z	2	2C	*	V
A0B04R4	Russian language 3	Z	2	2C	*	V
A0B04KS1	Spanish conversation 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04KS2	Spanish conversation 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S1	Spanish language 1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S2	Spanish language 2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S3	Spanish language 3 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04S4	Spanish Language 4 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	2	2C	*	V
A0B04CA	Technical English for Pre-Intermediate	Z	2	2C	L	V

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

A0B04GA Z 2
The aim of this course is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The course is meant mainly as a supplement for students who have not yet passed the B2 examination and are interested in further study and additional practice.

A0B04KA			
,	English Conversation 2	Z	2
-	for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary the	ey already know, a	s well as learn
· · ·	to communicate on a variety of topics and themes. This course is not designed for beginners.	7	
A0B04OA This course is designed.	Technical English Course for students who have met the exam requirement. Its main objective is to prepare s	Z Z	to communicate
	natter 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 s	nort explanatory article, and a research article.		
AE0B04C0	Czech Language 0	Z	2
	ards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of	-	1
	out pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases r	needed for everyday	communication /
during their stay in the C	zech Republic.	7	
A0B04CIN A0B04KF1	Franch convergation 1	Z	2 2
	French conversation 1	+	
A0B04KF2	French conversation 1	Z	2
A0B04F1 A0B04F2	French language 1 French language 2	Z	2 2
A0B04F2 A0B04F3	French Language 3	Z	2
A0B04F3 A0B04JAP		Z	2
A0B04GN	Japanese German Grammar	Z	2
A0B04GN A0B04KN	German Conversation	Z	2
A0B04KN2		Z	2
A0B04N1	German conversation 2	Z	2
A0B04N1 A0B04N2	German language 1	Z	2
A0B04N2 A0B04N3	German language 2	Z	2
A0B04N3 A0B04ON	German language 3 Professional German	Z	2
		Z	2
A0B04CAE1	Certificate of Advanced English CAE 1 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE1 covers	1	
	uage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba	-	
	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
texts of various types. C	AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours	es taught and asse	essed in English
	who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	ies. It is possible bu	ut not necessary
	ce CAE at British Council.	7	
A0B04CAE2	Certificate of Advanced English CAE 2 to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE2 covers	Z Z	2 for CAE holps
	uage skills (reading, writing, English in use, listening and speaking) and use them in a wide range of contexts. The exam is ba	-	
		ised on realistic tas	ks and indicates I
the ability to use the lang	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be		
texts of various types. C	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours	able to understand ses taught and asse	d and produce essed in English
texts of various types. Cas well as by employers	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countri	able to understand ses taught and asse	d and produce essed in English
texts of various types. C as well as by employers for obtaining credit to tal	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries CAE at British Council. Student is allowed to enrol only into one CAE course during one semester.	able to understand ses taught and asso ses. It is possible bu	d and produce essed in English ut not necessary
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries CAE at British Council. Student is allowed to enrol only into one CAE course during one semester. Certificate of Advanced English CAE 3	able to understand ses taught and assortes. It is possible but	d and produce essed in English ut not necessary
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3 The aim of the course is	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries 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	able to understand ses taught and assortes. It is possible but	d and produce essed in English ut not necessary
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries 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 guage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.	able to understandes taught and assoies. It is possible but Z unit 9 - 12. Studyir	d and produce essed in English ut not necessary
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your land A0B04CAE4	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries 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 guage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts. Certificate of Advanced English 4	able to understand ses taught and assortes. It is possible but	d and produce essed in English ut not necessary 2 ng for CAE helps
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your lang A0B04CAE4 A0B04FCE1	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries 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 guage skills (reading, writing English in use, listening and speaking) and use them in a wide range of contexts.	able to understandes taught and assigned. It is possible but the second of the second	d and produce essed in English ut not necessary 2 ng for CAE helps
texts of various types. C as well as by employers for obtaining credit to tal A0B04CAE3 The aim of the course is you to improve your lang A0B04CAE4 A0B04FCE1 The course is aimed for	guage in practical situations. You will be able to participate in meetings and discussions, expressing opinions clearly and be AE is recognised by the majority of universities in English speaking countries as proof of adequate language skills for cours who require knowledge of a foreign language. CAE is taken by more than 60 000 people each year in more than 60 countries 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 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	able to understandes taught and assigned. It is possible by unit 9 - 12. Studying Z	d and produce essed in English ut not necessary 2 ng for CAE helps 2 Frame. The
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A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2	Z	2
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0B04CA	Technical English for Pre-Intermediate	Z	2

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.

A0B04CAF2	Certificate of Advanced English CAE 2	7	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
	se is to prepare for Certificate of Advanced English - the second highest level Cambridge ESOL exam. The course CAE3 covers unit	l	
	you to improve your language skills (reading, writing English in use, listening and speaking) and use them in a wide range of col		
A0B04CAE4	Certificate of Advanced English 4	Z	
A0B04CIN		Z	2
A0B04F1	French language 1	Z	2
A0B04F2	French language 2	Z	2
A0B04F3	French Language 3	Z	2
A0B04FCE1	FCE 1	Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro		
course focuses on	improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining B2 ELF.	the required skills	needed for
A0B04FCE2		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	needed for
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	•	
Reference for Lang	juages (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		Z	2
	ned for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the Euro improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining		
Course locuses on	B2 ELF.	g the required skills	Ticcaca ioi
A0B04GA		Z	2
	urse is to extend and complement grammatical patterns covered in other English courses that are intended for full-time students. The		nainly as a
	supplement for students who have not yet passed the B2 examination and are interested in further study and additional pract		
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
A0B04KA	English Conversation 2	Z	2
The course is desi	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.	already know, as w	ell as learn
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	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
A0B04OA	Technical English Course	Z	2
!	aned for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare stude	l	
about technical sub	ject matter in English in a variety of formats. This will be practiced by examining the structure and style of writing in formal English and	practicing via 3 dif	ferent types
	of texts: an abstract, a short explanatory article, and a research article.		
A0B04ON	Professional German	Z	2
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04RET	Rhetoric	Z	2
	he subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the		I
bachelors. This sub	ject will enable 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.	cal barriers for pub	lic speaking
A0B04S1	Spanish language 1	Z	2
A0B04S1 A0B04S2	Spanish language 2	Z	2
A0B04S2 A0B04S3	Spanish language 2 Spanish language 3	Z	2
A0B04S3 A0B04S4	Spanish Language 4	Z	2
A0B04S4 A0M13DIP		Z	25
1	Diploma Thesis comprehensive work for the Master's degree study program. A student will choose a topic from a range of topics related to his or her		
	branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen	-	I
A0M14DIP	Diploma Project	Z	25
A0M15DIP	Master's thesis	Z	25
A0M16DIP	Diploma thesis	Z	25
	- ipionis mode		~

A0M17DIP	Diploma Thesis	Z	25
· ·	comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	-	
be specified by br	anch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensiv		n. Diploma
AOMO4 DID	projects deals with microwave technique, antennas, propagation, optical communications, EMC, and medical applications.		25
A0M31DIP	Diploma Thesis	Z	25
A0M33DIP	Diploma Thesis	Z	25
A0M34DIP	Diploma Thesis comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	Z	25
=	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensive with the source of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in front of the board of examiners for the comprehensive will be defended in the board of the board	=	
A0M35DIP	Diploma Thesis	Z	25
Independent final	comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	ner branch of study	, which will
be specified b	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	ensive final examin	nation.
A0M36DIP	Diploma Thesis	Z	25
A0M37DIP	Diploma Thesis	Z	25
=	comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or have been department or broadly department. The dislomenthesis will be defended in front of the board of evenings for the compreh	=	
A0M38DIP	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehence Diploma Thesis	7	25
	omprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	⊢ ← ner branch of study	
· ·	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehenses.	-	
A0M39DIP	Master Thesis	Z	25
A8M31AAS	Advanced Analog Systems	Z,ZK	5
A8M34ICD	IC Design	Z,ZK	5
A8M34ICS	IC Structures	Z,ZK	5
	ain design methodologies of analog, digital and optoelectronic integrated systems; Detailed description of the technological process for	-	n; CMOS
	hnologies and its advanced sub-micron trends; IC chip topology, layout and design rules; Technology of micro-electro-mechanical systems.		_
A8M34MST	Microsystems	Z,ZK	5
A8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5
A8M34OEP	Planar integrated optics	Z,ZK	5
	s theoretical and technological principles and design of planar integrated optics and optoelectronics as optical dividers, The students ge tion in planar waveguide and with basic devices and structures of integrated optics and optoelectronics as coupling elements, optical r	-	
	eceivers with SS-LD, WG-PD . In the course are integrated devices and structures for telecommunication for multiplexing and signal p	-	
	elements for physical and chemical sensor application and basic important measurement and diagnostic methods.	· ·	
A8M36ACA	Advanced Computer Architectures	Z,ZK	5
A8M38ASP	Analog Signal Processing and Digitalization	Z,ZK	5
	cated to methods for preprocessing, digitalization and reconstruction of continuis signals. It is focused to the methods for achieving of		
and suppression of	spurious 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.	al project of design	of typically
A8M38MS	Modern Sensors	Z,ZK	5
	ind advanced knowledge of sensors and extension by knowledge needed for design and development of sensor systems. The content	,	
of sensors as well a	is methods of complex sensor signal conditioning and processing. Sensors and sensor systems are shown in specific applications, the	design procedures	s are shown
in case studies. Lat	os in the first part are focused on complex characterization of sensor parameters, in the second part on independent design using FE	M modeling and e	xperimental
4 DID05	verification.		
ADIP25	Diploma Thesis comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	Z	25
=	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreh	=	
AE0B04C0	Czech Language 0	Z	2
	d towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the		
first hand information	n about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases need	ed for everyday con	nmunication
	during their stay in the Czech Republic.		
B0M16FI2	Philosophy 2	Z,ZK	4
B0M16HSD	The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology. History of economy and social studies	Z,ZK	4
	with the history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech po		
This subject doub	and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical	•	on, no anno
B0M16HT2	History of science and technology 2	Z,ZK	4
This subject traces	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude	nts' interest in the	history and
traditions of the su	bject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life	and the influence	of technical
DOMACNADO	engineers Dovebble av	7 71/	
BOM16MPS	Psychology	Z,ZK	4
B0M16TE1 This subject provide	Theology les to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture t	Z,ZK	4 disciplines
	he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones wh		
	- religion from which graws our civilization up.		1
TV-V1	Physical education	Z	1
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
TVV	Physical education	Z	0
T\/\/0	Physical aducation	7	Λ

For updated information see $\underline{\ \ http://bilakniha.cvut.cz/en/FF.html}$

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