Study plan

Name of study plan: Otevřené elektronické systémy - Vysokofrekvenční a digitální technika

Faculty/Institute/Others: Faculty of Electrical Engineering
Department:
Branch of study guaranteed by the department: Welcome page
Garantor of the study branch:
Program of study: Open Electronic Systems
Type of study: Follow-up master 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	P
A0M14DIP	**Diploma Project**	Z	25		L	P
A0M15DIP	**Master's thesis**	Z	25	36s	L	P
A0M16DIP	**Diploma thesis**	Z	25	36s	L,Z	P
A0M17DIP	**Diploma Thesis** ***Miloš Mazánek***	Z	25	36s	L	P
A0M31DIP	**Diploma Thesis**	Z	25		L	P
A0M33DIP	**Diploma Thesis**	Z	25	36S	L	P
A0M34DIP	**Diploma Thesis**	Z	25	36C	L	P
A0M35DIP	**Diploma Thesis**	Z	25	36S	L	P
A0M37DIP	**Diploma Thesis**	Z	25	36s	L	P
A0M38DIP	**Diploma Thesis**	Z	25	0P+36C	L	P
A0M39DIP	**Master Thesis**	Z	25		L	P
A0M36DIP	**Diploma Thesis**	Z	25	14s	L,Z	P
ADIP25	**Diploma Thesis**	Z	25	36s	L	P

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

A0M13DIP	Diploma Thesis	Z	25
Independent final 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 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 comprehensive final examination.			
A0M14DIP	Diploma Project	Z	25
A0M15DIP	Master's thesis	Z	25
A0M16DIP	Diploma thesis	Z	25
A0M17DIP	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 comprehensive final examination. Diploma projects deals with microwave 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 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 comprehensive final examination.			
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 comprehensive final examination.			
A0M37DIP	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 comprehensive final examination.			
A0M38DIP	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 comprehensive final examination.			
A0M39DIP	Master Thesis	Z	25
A0M36DIP	Diploma Thesis	Z	25
ADIP25	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 comprehensive final examination.			

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: MOESPO2
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
A8M17AEC	**Antennas and EMC** *Jan Kraček, Pavel Hazdra, Miloš Mazánek* ***Jan Kraček*** *Miloš Mazánek (Gar.)*	Z,ZK	5	3P+1L	L	PO
A8M37ART	**Architectures of Rx/Tx Systems**	Z,ZK	5	4P+0C	Z	PO
A8M17WCP	**Wireless Channels&Propagation**	Z,ZK	5	4P+0C	Z	PO
A8M37CAD	**CAD and Numerical Methods in RF Engineering**	KZ	3	2P+0C	L	PO
A8M37RML	**Radio Systems Measurement Lab**	Z	5	0P+4L	Z	PO
A8M17ROL	**RF and Optical Engineering Lab**	Z	5	0P+4L	Z	PO
A8M37MAM	**Microprocessors&Microcomputers**	Z,ZK	7	4P+2C	Z	PO
A8M17OTT	**Optical&THz Techniques**	Z,ZK	3	2P+0L	Z	PO
A8M17RFB	**RF Blocks Technology**	Z,ZK	7	6P+0L	Z	PO

Characteristics of the courses of this group of Study Plan: Code=MOESPO2 Name=Compulsory subjects of the branch

A8M17AEC	Antennas and EMC	Z,ZK	5
A8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5
A8M17WCP	Wireless Channels&Propagation	Z,ZK	5
The aim of the course is to provide deep knowledge of the wireless propagation channel in real environments for the planning of terrestrial and satellite wireless links. It will include a theoretical background for the radiowave propagation in the atmosphere of the Earth as well as design procedures recommended by ITU-R for selected applications, such as both terrestrial and satellite, fixed and mobile links in various frequency bands.			
A8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3
A8M37RML	Radio Systems Measurement Lab	Z	5
A8M17ROL	RF and Optical Engineering Lab	Z	5
A8M37MAM	Microprocessors&Microcomputers	Z,ZK	7
The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect external circuit to the processor bus, and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C language and combination of both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of necessary peripherals and software design.			
A8M17OTT	Optical&THz Techniques	Z,ZK	3
A8M17RFB	RF Blocks Technology	Z,ZK	7

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	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 representation, its aims and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical groups.			
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 Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04KA	**English Conversation 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04OA	**Technical English Course** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
AE0B04C0	**Czech Language 0** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04CIN	***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04KF1	**French conversation 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04KF2	**French conversation 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04F1	**French language 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04F2	**French language 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04F3	**French Language 3** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04JAP	**Japanese** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v

A0B04GN	**German Grammar** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04KN	**German Conversation** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04KN2	**German conversation 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04N1	**German language 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04N2	**German language 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04N3	**German language 3** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04ON	**Professional German** ***Petra Jennings*** *Dana Lisá (Gar.)*	Z	2	2C	Z,L	v
A0B04CAE1	**Certificate of Advanced English CAE 1** ***Pavla Péterová*** *Pavla Péterová (Gar.)*	Z	2	2C	Z,L	v
A0B04CAE2	**Certificate of Advanced English CAE 2** ***Pavla Péterová*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04CAE3	**Certificate of Advanced English CAE 3** ***Pavla Péterová*** *Petra 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 Jennings***	Z	2	2C	*	v
A0B04FCE2	**FCE 2** ***Petra Jennings***	Z	2	2C	*	v
A0B04FCE4	**FCE4** ***Dana Saláková***	Z	2	2C	Z,L	v
A0B04FCE3	**FCE 3** ***Petra Jennings***	Z	2	2C	Z,L	v
A0B04PZP	**Preparation for stay in Germany** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04RET	**Rhetoric** ***Jitka Pinková*** *Petra Jennings (Gar.)*	Z	2	2C	Z,L	v
A0B04KR	**Russian conversation** ***Dana Saláková***	Z	2	2C	Z,L	v
A0B04KR2	**Russian conversation 2** ***Dana Saláková***	Z	2	2C	*	v
A0B04R1	**Russian language 1** ***Jitka Pinková*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04R2	**Russian language 2** ***Jitka Pinková*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04R3	**Russian language 3** ***Jitka Pinková***	Z	2	2C	*	v
A0B04R4	**Russian language 3** ***Dana Saláková***	Z	2	2C	*	v
A0B04KS1	**Spanish conversation 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04KS2	**Spanish conversation 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04S1	**Spanish language 1** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04S2	**Spanish language 2** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04S3	**Spanish language 3** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04S4	**Spanish Language 4** ***Petra Jennings*** *Petra Jennings (Gar.)*	Z	2	2C	*	v
A0B04CA	**Technical English for Pre-Intermediate** ***Dana Saláková***	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
The course is designed for students who want to develop their communication skills. Students will be given the opportunity to use the vocabulary they already know, as 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
This course is designed for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare students to be able to communicate about technical subject 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 of texts: an abstract, a short explanatory article, and a research article.			
AE0B04C0	Czech Language 0	Z	2
The course is aimed towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the course is to give the students first hand information about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases needed for everyday communication during their stay in the Czech Republic.			

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
A0B04N2	German language 2	Z	2
A0B04N3	German language 3	Z	2
A0B04ON	Professional German	Z	2
A0B04CAE1	Certificate of Advanced English CAE 1	Z	2
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.			
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 course 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 contexts.			
A0B04CAE4	Certificate of Advanced English 4	Z	
A0B04FCE1	FCE 1	Z	2
The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. 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 ELF.			
A0B04FCE2	FCE 2	Z	2
The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. 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 ELF.			
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 European Language Frame. 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 ELF.			
A0B04FCE3	FCE 3	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 Common European Framework of Reference for Languages (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.			
A0B04PZP	Preparation for stay in Germany	Z	2
A0B04RET	Rhetoric	Z	2
The objective of the subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the prospective engineers and bachelors. This subject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychological barriers for public speaking so that the students can create a good image. The course "Retorika" provides an introduction to this subject.			
A0B04KR	Russian conversation	Z	2
A0B04KR2	Russian conversation 2	Z	2
A0B04R1	Russian language 1	Z	2
A0B04R2	Russian language 2	Z	2
A0B04R3	Russian language 3	Z	2
A0B04R4	Russian language 3	Z	2
A0B04KS1	Spanish conversation 1	Z	2
A0B04KS2	Spanish conversation 2	Z	2
A0B04S1	Spanish language 1	Z	2
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
A003TV	**Physical Education**	Z	2	0+2	L,Z	v
TV-V1	**Physical education**	Z	1	0+2	Z,L	v
TVV0	**Physical education**	Z	0	0+2	Z,L	v
TVKLV	**Physical Education Course**	Z	0	7dní	L	v
TVKZV	**Physical Education Course**	Z	0	7dní	Z	v

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

TVV	Physical education	Z	0
A003TV	Physical Education	Z	2
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKLV	Physical Education Course	Z	0
TVKZV	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
A003TV	Physical Education	Z	2
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.			
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 course 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 contexts.			
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
The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. 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 ELF.			
A0B04FCE2	FCE 2	Z	2
The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. 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 ELF.			
A0B04FCE3	FCE 3	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 Common European Framework of Reference for Languages (CEFR). The course focuses on improving all language skills - writing, speaking, reading, listening, grammar and phonetics - and is submitted to the goal of obtaining the required skills needed for B2 CEFR.			
A0B04FCE4	FCE4	Z	2
The course is aimed for students, employees of the Faculty and the public whose knowledge of English corresponds to B1 level according to the European Language Frame. 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 ELF.			
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.			
A0B04GN	German Grammar	Z	2
A0B04JAP	Japanese	Z	2
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 they already know, as well as learn new words and phrases, to communicate on a variety of topics and themes. This course is not designed for beginners.			
A0B04KF1	French conversation 1	Z	2
A0B04KF2	French conversation 1	Z	2
A0B04KN	German Conversation	Z	2
A0B04KN2	German conversation 2	Z	2
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
This course is designed for students who have successfully passed the B2 Exam or have met the exam requirement. Its main objective is to prepare students to be able to communicate about technical subject 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 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
The objective of the subject is to master and improve skills necessary for successful presentation as well as enhancing the communicative ability of the prospective engineers and bachelors. This subject will enable the students to develop both spoken and written presentations, non verbal communication and remove the psychological barriers for public speaking so that the students can create a good image. The course "Retorika" provides an introduction to this subject.			
A0B04S1	Spanish language 1	Z	2
A0B04S2	Spanish language 2	Z	2
A0B04S3	Spanish language 3	Z	2
A0B04S4	Spanish Language 4	Z	2
A0M13DIP	Diploma Thesis	Z	25
Independent final 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 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 comprehensive final examination.			
A0M14DIP	Diploma Project	Z	25
A0M15DIP	Master's thesis	Z	25
A0M16DIP	Diploma thesis	Z	25
A0M17DIP	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 comprehensive final examination. Diploma projects deals with microwave 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 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 comprehensive final examination.			

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 comprehensive final examination.			
A0M36DIP	Diploma Thesis	Z	25
A0M37DIP	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 comprehensive final examination.			
A0M38DIP	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 comprehensive final examination.			
A0M39DIP	Master Thesis	Z	25
A8M17AEC	Antennas and EMC	Z,ZK	5
A8M17OTT	Optical&THz Techniques	Z,ZK	3
A8M17RFB	RF Blocks Technology	Z,ZK	7
A8M17ROL	RF and Optical Engineering Lab	Z	5
A8M17WCP	Wireless Channels&Propagation	Z,ZK	5
The aim of the course is to provide deep knowledge of the wireless propagation channel in real environments for the planning of terrestrial and satellite wireless links. It will include a theoretical background for the radiowave propagation in the atmosphere of the Earth as well as design procedures recommended by ITU-R for selected applications, such as both terrestrial and satellite, fixed and mobile links in various frequency bands.			
A8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5
A8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3
A8M37MAM	Microprocessors&Microcomputers	Z,ZK	7
The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect external circuit to the processor bus, and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C language and combination of both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of necessary peripherals and software design.			
A8M37RML	Radio Systems Measurement Lab	Z	5
ADIP25	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 comprehensive final examination.			
AE0B04C0	Czech Language 0	Z	2
The course is aimed towards ERASMUS students - especially beginners. The course is taught on the basis of English language support. The goal of the course is to give the students first hand information about pronunciation, vocabulary and grammar structure of the Czech language, and also provide them with basic useful phrases needed for everyday communication during their stay in the Czech Republic.			
B0M16FI2	Philosophy 2	Z,ZK	4
The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.			
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 representation, its aims and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical groups.			
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			
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.			
TV-V1	Physical education	Z	1
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
TVV	Physical education	Z	0
TVV0	Physical education	Z	0

For updated information see http://bilakniha.cvut.cz/en/f3.html
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