Study plan

Name of study plan: Open Electronic Systems - RF and DSP Enginnering

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: MDIPE

Name of the group: Diploma Thesis

Requirement credits in the group: In this group you have to gain at least 25 credits (at most 375) 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
AE0M14DIP	Diploma Project	Z	25		L	Р
AE0M16DIP	Diploma thesis	Z	25	36s	L,Z	Р
AE0M13DIP	Diploma Thesis	Z	25	36S	L	Р
AE0M17DIP	Diploma Thesis	Z	25	36s	L	Р
AE0M38DIP	Diploma Thesis	Z	25	0P+36C	L	Р
AE0M37DIP	Diploma Thesis	Z	25	36s	L	Р
AE0M35DIP	Diploma Thesis	Z	25	36S	L	Р
AE0M33DIP	Diploma Thesis	Z	25	36S	L	Р
AE0M34DIP	Diploma Thesis	Z	25	36C	L	Р
ADIP25	Diploma Thesis	Z	25	36s	L	Р
AE4M99DIP	Master Thesis	Z	25		L	Р
AE0M15DIP	Master's thesis	Z	25	36s	L	Р

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

AE0M14DIP	Diploma Project	Z	25
AE0M16DIP	Diploma thesis	Z	25
AE0M13DIP	Diploma Thesis	Z	25
	nprehensive work for the Master's degree study program. A student will choose a topic from a range of topics related to his or h epartment or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensiv		
AE0M17DIP	Diploma Thesis	Z	25
Independent final cor	nprehensive 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
	nprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his (h department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher		
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AE0M34DIP	Diploma Thesis	Z	25		
Independent final comp	ependent 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 wil				
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen	sive final examination	ation.		
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 o	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 comprehen	sive final examination	ation.		
AE4M99DIP	Master Thesis	Z	25		
AE0M15DIP	Master's thesis	Z	25		

Code of the group: MOESEBME

Name of the group: Safety of the master's studies

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
BEEZM	Safety in Electrical Engineering for a master's degree Vladimír K la, Ivana Nová, Josef ernohous, Radek Havlí ek Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Ρ

Characteristics of the courses of this group of Study Plan: Code=MOESEBME Name=Safety of the master's studies

 BEEZM
 Safety in Electrical Engineering for a master's degree
 Z
 0

 The course provides for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical hazard of given branch of study.
 Students receive indispensable qualification according to the current Directive of the Dean.
 Image: Construction of the current of the Dean.
 Construction of the current Directive of the Dean.

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: MOESEPO2

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
AE8M17AEC	Antennas and EMC	Z,ZK	5	3P+1L	L	PO
AE8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5	4P+0L	Z	PO
AE8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3	2P+0C	L	PO
AE8M37MAM	Microprocessors&Microcomputers	Z,ZK	7	4P+2C	Z	PO
AE8M17OTT	Optical&THz Techniques	Z,ZK	3	2P+0L	Z	PO
AE8M37RML	Radio Systems Measurement lab	Z	5	0P+4L	Z	PO
AE8M17ROL	RF and Optical Engineering Lab	Z	5	0P+4L	Z	PO
AE8M17RFB	RF Blocks Technology	Z,ZK	7	6P+0L	Z	PO
AE8M17WCP	Wireless Channels&Propagation	Z,ZK	5	4P+0C	Z	PO

Characteristics of the courses of this group of Study Plan: Code=MOESEPO2 Name=Compulsory subjects of the branch

AE8M17AEC	Antennas and EMC	Z,ZK	5
AE8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5
AE8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3
AE8M37MAM	Microprocessors&Microcomputers	Z,ZK	7
AE8M17OTT	Optical&THz Techniques	Z,ZK	3
AE8M37RML	Radio Systems Measurement lab	Z	5
AE8M17ROL	RF and Optical Engineering Lab	Z	5
AE8M17RFB	RF Blocks Technology	Z,ZK	7

AE8M17WCP Wireless Channels&Propagation

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.

7 7K

5

Name of the block: Elective courses Minimal number of credits of the block: 4 The role of the block: V

Code of the group: MOESEVOL 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: ~Student can choose arbitrary subject of the master's program (EEM - Electrical Engineering, Power Enginnering and Management, KME - Communications, Multimedia and Electronics, KYR - Cybernetics and Robotics, OI - Open Informatics, OES - Open Electronics Systems) which is not part of his curriculum. Student can choose with consideration of recommendation of the branch guarantee.You can find a selection of optional courses organized by the departments on the web site http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

Code of the group: MOESEH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 22) 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
AE0M16HT2	History of science and technology 2	Z,ZK	4	2+2s	L	V
AE0M16FI2	Philosophy II	Z,ZK	4	2+2s	L	V
AE0M16MPS	Psychology	Z,ZK	4	2+2s	Z	V
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	V
AE0M16TE1	Theology	Z,ZK	4	2+2s	L	V

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

AE0M16HT2	History of science and technology 2	Z,ZK	4
This subject traces his	torical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate s	tudents' interest ii	h 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			
AE0M16FI2	Philosophy II	Z,ZK	4
The course is oriented	on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.		
AE0M16MPS	Psychology	Z,ZK	4
A003TV	Physical Education	Z	2
AE0M16TE1	Theology	Z,ZK	4
	o students the basic orientation in christian theology and requires no special previous education. After short philosophic lectu subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones		-

- religion from which graws our civilization up.

Code of the group: MEJK 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 of the group: METV Name of the group: Physical Training

Requirement credits in the group: Requirement courses in the group: Credits in the group: 0

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
03TV	Physical Education Ji í Drnek	Z	1	2s	Z,L	v
A0M03TVI	Physical Education I Ji í Drnek	Z	1	2s	Z	V
A0M03TVII	Physical Education II Ji í Drnek	Z	1	2s	L	V
A0M03TVIII	Physical Education III Ji í Drnek	Z	1	2s	Z	V
A0M03TVIV	Physical Education IV Ji f Drnek	Z	1	2s	L	v
A0M03TVK	Physical Education Course	Z	1	7dní	Z,L	v
	Physical Education I			1	Z	1
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List of courses of this pass:

Code	Name of the course	Completion	Credits
03TV	Physical Education	Z	1
The student can be	enlisted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at F.E	.E.) after finishing	the optional
	P.E. subject. The syllabi of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303		
A003TV	Physical Education	Z	2
A0M03TVI	Physical Education I	Z	1
The main goal of	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	ication as well as g	jain basic

knowledge connected with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sedentary occupation of students as a part of combat with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciplines: aerobics, aikido, basketball,

beach volleyball, badminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, climbing, shooting bow, ninjutsu, swimming, softball, spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described sport disciplines according to

	their own interest and available capacity.		
A0M03TVII	Physical Education II	Z	1
e e	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	•	
-	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec		
	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline dminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cli		
-	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
с, ,	their own interest and available capacity.		Ũ
A0M03TVIII	Physical Education III	Z	1
The main goal of	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	cation as well as g	ain basic
•	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec	, ,	
	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline	,	,
	dminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cli spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
ownining, consul,	their own interest and available capacity.		
A0M03TVIV	Physical Education IV	Z	1
The main goal of	the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their edu	cation as well as g	ain basic
-	ed with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sec		
-	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline		
	dminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, cli spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described		-
swimming, sondail,	their own interest and available capacity.	sport disciplines a	iccording to
A0M03TVK	Physical Education Course	Z	1
ADIP25	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 b	y branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	ensive final examin	ation.
AE0M13DIP	Diploma Thesis	Z	25
•	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 compreher		
AE0M14DIP	Diploma Project	Z	25
AE0M15DIP	Master's thesis	Z	25
AE0M16DIP	Diploma thesis	Z	25
AE0M16FI2	Philosophy II	Z,ZK	4
	The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.	7 71/	
AE0M16HT2	History of science and technology 2 historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude	Z,ZK	4 history and
-	pject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life		-
	engineers		
AE0M16MPS	Psychology	Z,ZK	4
AE0M16TE1	Theology	Z,ZK	4
	les to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture t	-	
are gone through. T	he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who	o want to get know	Christianity
	- religion from which graws our civilization up.	7	05
AE0M17DIP	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 which will
•	anch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensiv		
	projects deals with microwave technique, antennas, propagation, optical communications, EMC, and medical applications.		ii Dipionia
AE0M33DIP	Diploma Thesis	Z	25
AE0M34DIP	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	her branch of study	, which will
be specified b	y branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	ensive final examir	ation.
AE0M35DIP	Diploma Thesis	Z	25
AE0M37DIP	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	-	
	y branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe		
AE0M38DIP	Diploma Thesis	Z	25
AE4M99DIP	Master Thesis	Z	25
AE8M17AEC	Antennas and EMC	Z,ZK	5
AE8M17OTT	Optical&THz Techniques	Z,ZK	3
AE8M17RFB	RF Blocks Technology	Z,ZK	7
AE8M17ROL	RF and Optical Engineering Lab	Z	5
AE8M17WCP	Wireless Channels&Propagation	Z,ZK	5
	rse is to provide deep knowledge of the wireless propagation channel in real environments for the planning of terrestrial and satellite ound for the radiowave propagation in the atmosphere of the Earth as well as design procedures recommended by ITU-R for selecte		
	terrestrial and satellite, fixed and mobile links in various frequency bands.	- applications, 300	
AE8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5
AE8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3
AE8M37MAM	Microprocessors&Microcomputers	Z,ZK	7

AE8M37RML	Radio Systems Measurement lab	Z	5		
BEEZM	Safety in Electrical Engineering for a master's degree	Z	0		
The course provi	The course provides for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical hazard of given branch of study.				
	Students receive indispensable qualification according to the current Directive of the Dean.				

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-20, time 04:30.