# Study plan

# Name of study plan: Open Electronic Systems - Solid State Systems

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			
Independent final comp	orehensive 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.			
AE0M17DIP	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						
Independent final comp	remember of the master of degree educy programmer, educating min energy a topic ment a range of topics related to the		,,			
·	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen		•			
be specified by branch			•			
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen		•			
be specified by branch projects deals with mic	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen rowave technique, antennas, propagation, optical communications, EMC, and medical applications.		ation. Diploma			
be specified by branch projects deals with mic AE0M38DIP AE0M37DIP	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen rowave technique, antennas, propagation, optical communications, EMC, and medical applications.  Diploma Thesis	sive final examina Z Z	ation. Diploma  25  25			
be specified by branch projects deals with mic AE0M38DIP AE0M37DIP Independent final comp	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen rowave technique, antennas, propagation, optical communications, EMC, and medical applications.  Diploma Thesis  Diploma Thesis	z Z Z or her branch of s	ation. Diploma  25  25  tudy, which will			
be specified by branch projects deals with mic AE0M38DIP AE0M37DIP Independent final comp	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen rowave technique, antennas, propagation, optical communications, EMC, and medical applications.  Diploma Thesis  Diploma Thesis  Diploma Thesis  Diploma Thesis  Diploma Thesis  Diploma Thesis  Diploma Thesis	z Z Z or her branch of s	ation. Diploma  25  25  tudy, which will			

AE0M34DIP	Diploma Thesis	Z	25		
Independent final com	orehensive 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 examin	ation.		
ADIP25	Diploma Thesis	Z	25		
Independent final com	orehensive 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 comprehensive final examination.					
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	Р

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.

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: MOESEPO3

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
AE8M31AAS	Advanced Analog Systems	Z,ZK	5	2P+2S	Z	РО
AE8M36ACA	Advanced Computer Architectures	Z,ZK	5	2P+2S	Z	РО
AE8M38ASP	Analog.Sig.Proc.&Digitalization	Z,ZK	5	2P+2L	Z	РО
AE8M34ICD	IC Design	Z,ZK	5	2P+2C	L	РО
AE8M34ICS	IC Structures	Z,ZK	5	2P+2C	Z	РО
AE8M34MST	Microsystems	Z,ZK	5	2P+2L	L	РО
AE8M38MS	Modern Sensors	Z,ZK	5	2P+2L	Z	РО
AE8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5	2P+2C	L	РО
AE8M34OEP	Optoel.and Photonics	Z,ZK	5	2P+2L	Z	РО

Characteristics of the courses of this group of Study Plan: Code=MOESEPO3 Name=Compulsory subjects of the branch

AE8M31AAS	Advanced Analog Systems	Z,ZK	5
AE8M36ACA	Advanced Computer Architectures	Z,ZK	5
AE8M38ASP	Analog.Sig.Proc.&Digitalization	Z,ZK	5
AE8M34ICD	IC Design	Z,ZK	5
AE8M34ICS	IC Structures	Z,ZK	5
AE8M34MST	Microsystems	Z,ZK	5
AE8M38MS	Modern Sensors	Z,ZK	5
AE8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5
AE8M34OEP	Optoel.and Photonics	Z,ZK	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 historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate students' interest in the history and						
traditions of the subject	t, while highlighting the developments in technical education and professional organizations, the process of shaping scientific	life and the influe	nce of technical			
engineers	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			

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.

Z,ZK

Code of the group: MEJK

AE0M16TE1

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 Note on the group:

A0M03TVK

Physical Education Course

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
03TV	Physical Education Ji í Drnek	Z	1	2s	Z,L	V
A0M03TVI	Physical Education I  Ji i Drnek	Z	1	2s	Z	V
A0M03TVII	Physical Education II  Ji i Drnek	Z	1	2s	L	V
A0M03TVIII	Physical Education III  Ji i Drnek	Z	1	2s	Z	V
A0M03TVIV	Physical Education IV  Ji i Drnek	Z	1	2s	L	V
A0M03TVK	Physical Education Course Ji i Drnek	Z	1	7dní	Z,L	V

	Ji i Drnek					
A0M03TVK	Physical Education Course Ji í Drnek	Z	1	7dní	Z,L	V
Characteristics of	f the courses of this group of Study Plan: Code=METV Name=	:Physical Training	3			
03TV	Physical Education				Z	1
The student can be en	isted in the subject P.E. 03TV (7 times at maximum), the student gets one (1) credit (	max. 7 credits during th	e whole stud	dy at F.E.E.)	after finishing	the optio
P.E. subject. The syllab	i of each sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz	z/fee/K303				
A0M03TVI	Physical Education I				Z	1
	nysical training is to improve and extend locomotive skills which students have been	earned within previous	stages of the	ir education	as well as g	ain basic
• .	with kinantropology, hygienics and physiotherapy. Special attention is paid on the heal	·	•		•	
as a part of combat with	civilization diseases. Within different study programmes, the Department of Physical E	Education and Sport offe	ers following	disciplines: a	aerobics, aikid	do, basketl
beach volleyball, badm	inton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing,	karate, fitness, downhill	skiing, ice h	ockey, climb	ing, shooting	bow, ninju
swimming, softball, spi	nning, squash, table tennis, tennis, hiking, volleyball and health physical education. S	tudents may choose on	e of above of	lescribed sp	ort disciplines	accordin
their own interest and a	available capacity.					
A0M03TVII	Physical Education II				Z	1
The main goal of the pl	hysical training is to improve and extend locomotive skills which students have been	earned within previous	stages of the	ir education	as well as a	ain basic
knowledge connected y	with kinantropology, hygienics and physiotherapy. Special attention is paid on the heal	thy lifestyle forming and	compensati	on of seden	tary occupation	on of stud
•	civilization diseases. Within different study programmes, the Department of Physical E		•			
•	inton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing,	•	•	•		
-	nning, squash, table tennis, tennis, hiking, volleyball and health physical education. S		_	-		-
their own interest and a		•			•	
A0M03TVIII	Physical Education III				Z	1
The main goal of the pl	nysical training is to improve and extend locomotive skills which students have been	earned within previous	stages of the	ir education	as well as g	ain basic
• .	with kinantropology, hygienics and physiotherapy. Special attention is paid on the heal	·	•		•	
as a part of combat with	civilization diseases. Within different study programmes, the Department of Physical E	Education and Sport offe	ers following	disciplines: a	aerobics, aikid	do, basket
beach volleyball, badm	inton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing,	karate, fitness, downhill	skiing, ice h	ockey, climb	ing, shooting	bow, ninju
swimming, softball, spi	nning, squash, table tennis, tennis, hiking, volleyball and health physical education. S	tudents may choose on	e of above of	escribed sp	ort disciplines	accordir
their own interest and a	available capacity.					
A0M03TVIV	Physical Education IV				Z	1
	nysical training is to improve and extend locomotive skills which students have been	earned within previous	stages of the	ir education	as well as g	ain basic
• .	with kinantropology, hygienics and physiotherapy. Special attention is paid on the heal	·	•		•	
as a part of combat with	civilization diseases. Within different study programmes, the Department of Physical E	Education and Sport offe	ers following	disciplines: a	aerobics, aikid	la hacka
•						iu, baske
-	inton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing,	karate, fitness, downhill	skiing, ice h	•		
awiiriiriig, aditbali, api	inton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, nning, squash, table tennis, tennis, hiking, volleyball and health physical education. S		_	ockey, climb	ing, shooting	bow, ninj

# 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 optiona
	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 c	ain basic

The main goal of the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their education as well as gain 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
•	f the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their educ ted with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sed		
•	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline		
-	adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, clii		
swimming, softball,	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described	sport disciplines a	according to
	their own interest and available capacity.		
A0M03TVIII	Physical Education III	Z	1
	f the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their educ ted with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sed		
-	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline		
•	adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, clir		
swimming, softball,	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described	sport disciplines a	according to
	their own interest and available capacity.		
A0M03TVIV	Physical Education IV	Z	1
-	f the physical training is to improve and extend locomotive skills which students have been earned within previous stages of their educ ted with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation of sed	-	
-	with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following discipline		
beach volleyball, ba	adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hockey, clir	mbing, shooting bo	ow, ninjutsu,
swimming, softball,	spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described	sport disciplines a	according to
A OMOST\ //	their own interest and available capacity.	Z	1
A0M03TVK ADIP25	Physical Education Course  Diploma Thesis	Z	1 25
-	DIPIOTIA 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		
•	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	=	
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 b		
	branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehen		
AE0M14DIP	Diploma Project	Z	25
AE0M15DIP	Master's thesis	Z	25
AE0M16DIP	Diploma thesis	Z 7.7/	25
AE0M16FI2	Philosophy II  The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.	Z,ZK	4
AE0M16HT2	History of science and technology 2	Z,ZK	4
	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude	′ '	- 1
traditions of the sul	bject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life	and the influence	of technical
	engineers		
AE0M16MPS	Psychology	Z,ZK	4
AE0M16TE1	Theology des to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the	Z,ZK	4
	he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who	_	
gg	- religion from which graws our civilization up.	· ··········· g-·······	,
AE0M17DIP	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	e final examination	n. Diploma
AE0M33DIP	projects deals with microwave technique, antennas, propagation, optical communications, EMC, and medical applications.  Diploma Thesis	7	25
AE0M34DIP	Diploma Triesis  Diploma Thesis	Z 	25
	pipiornal rriesis  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		
•	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe	-	
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	-	
-	by 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 Z,ZK	25
AE8M31AAS AE8M34ICD	Advanced Analog Systems  IC Design	Z,ZK Z,ZK	5 5
AE8M34ICS	IC Design IC Structures	Z,ZK Z,ZK	5
AE8M34MST	Microsystems	Z,ZK	5
AE8M34NAN	Nanoelectronics and Nanotechnology	Z,ZK	5
AE8M34OEP	Optoel.and Photonics	Z,ZK	5
AE8M36ACA	Advanced Computer Architectures	Z,ZK	5
AE8M38ASP	Analog.Sig.Proc.&Digitalization	Z,ZK	5
AE8M38MS	Modern Sensors	Z,ZK	5
BEEZM	Safety in Electrical Engineering for a master's degree	Z	0
	des for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical haza	rd of given branch	of study.
	Students receive indispensable qualification according to the current Directive of the Dean.		

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a>

Generated: day 2025-07-19, time 13:12.