Study plan

Name of study plan: Open Electronic Systems - Communications and Signal Processing

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: 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:

AE0M33DIP

Diploma Thesis

| 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 com | 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 de | epartment or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensiv | e final examination | n. | | | | |
| AE0M17DIP | Diploma Thesis | Z | 25 | | | | |
| Independent final com | prehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his | or her branch of s | tudy, which will | | | | |
| be specified by branch | ndepartment or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher | sive final examin | ation. Diploma | | | | |
| projects deals with mi | crowave technique, antennas, propagation, optical communications, EMC, and medical applications. | | | | | | |
| AE0M38DIP | Diploma Thesis | Z | 25 | | | | |
| AE0M37DIP | Diploma Thesis | Z | 25 | | | | |
| Independent final com | prehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his | or her branch of s | tudy, which will | | | | |
| be specified by branch | department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher | sive final examin | ation. | | | | |
| AE0M35DIP | Diploma Thesis | Z | 25 | | | | |

25

| AE0M34DIP | Diploma Thesis | Z | 25 | | | | |
|--|--|--------------------|------------------|--|--|--|--|
| Independent final comp | 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 | 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. | | | | | | |
| 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 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: MOESEPO1

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 10 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 |
|-----------|---|------------|---------|---------|----------|------|
| AE8M31APS | Audio Processing and source coding | Z,ZK | 5 | 4P | L | PO |
| AE8M32AVL | Audio-Video Processing Lab | Z | 2 | 0P + 2L | Z | PO |
| AE8M37CDC | Coding in Digital Communications | Z,ZK | 5 | 4P+0C | L | РО |
| AE8M37CSL | Communications and Signal Processing Laboratory | Z | 2 | 0P+2C | L | PO |
| AE8M32NOP | Network Optimization | Z,ZK | 5 | 4P + 0C | Z | PO |
| AE8M37RSY | Radio Systems | Z,ZK | 5 | 4P+0L | Z | PO |
| AE8M32VPS | Video processing and source coding | Z,ZK | 5 | 4P + 0C | Z | PO |
| AE8M37WDC | Wireless Digital Communications | Z,ZK | 5 | 4P+0C | Z | PO |

Characteristics of the courses of this group of Study Plan: Code=MOESEPO1 Name=Compulsory subjects of the branch

| AE8M31APS | Audio Processing and source coding | Z,ZK | 5 |
|-----------|---|------|---|
| AE8M32AVL | Audio-Video Processing Lab | Z | 2 |
| AE8M37CDC | Coding in Digital Communications | Z,ZK | 5 |
| AE8M37CSL | Communications and Signal Processing Laboratory | Z | 2 |
| AE8M32NOP | Network Optimization | Z,ZK | 5 |
| AE8M37RSY | Radio Systems | Z,ZK | 5 |
| AE8M32VPS | Video processing and source coding | Z,ZK | 5 |
| AE8M37WDC | Wireless Digital Communications | 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 | 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

| AE0M16H12 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 s | tudents' interest in | n 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 influe | nce of technical |
| engineers | | |

| AE0M16FI2 | Philosophy II | Z,ZK | 4 |
|------------------------|--------------------|------|---|
| The course is oriented | | | |
| AE0M16MPS | Psychology | Z,ZK | 4 |
| A003TV | Physical Education | Z | 2 |
| AE0M16TE1 | 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: 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 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 |
|------------|---|------------|---------|-------|----------|------|
| 03TV | Physical Education | Z | 1 | 2s | Z,L | V |
| A0M03TVI | Physical Education I | Z | 1 | 2s | Z | V |
| A0M03TVII | Physical Education II | Z | 1 | 2s | L | V |
| A0M03TVIII | Physical Education III | Z | 1 | 2s | Z | V |
| A0M03TVIV | Physical Education IV | Z | 1 | 2s | L | V |
| A0M03TVK | Physical Education Course | Z | 1 | 7dní | Z,L | V |

Characteristics of the courses of this group of Study Plan: Code=METV Name=Physical Training

| | e enlisted in the subject P.E. 031V (7 times at maximum), the student gets one (1) credit (max. 7 credits during the whole study at # reach sport disciplin can be found on the Internet address: http://www.Feld.cvut.cz/fee/K303 | F.E.E.) after finis | hing the optional |
|--|--|---|---|
| A0M03TVI | Physical Education I | Z | 1 |
| The main goal of th | ne physical training is to improve and extend locomotive skills which students have been earned within previous stages of their ec | ducation as well a | s gain basic |
| as a part of combat beach volleyball, ba swimming, softball, | ted with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation o with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disciadminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hocke spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above described in the students of the state of the sta | plines: aerobics, a y, climbing, shoot | nikido, basketball ing bow, ninjutsu |
| A0M03TVII | nd available capacity. Physical Education II | Z | 1 |
| The main goal of th | he physical training is to improve and extend locomotive skills which students have been earned within previous stages of their ed | ucation as well a | s gain basic |
| as a part of combat | ted with kinantropology, hygienics and physiotherapy. Special attention is paid on the healthy lifestyle forming and compensation o with civilization diseases. Within different study programmes, the Department of Physical Education and Sport offers following disci | plines: aerobics, a | ikido, basketball |
| swimming, softball, | adminton, bowling, skating, budo, floorball, football, frisbee, golf, in-line skating, canoeing, karate, fitness, downhill skiing, ice hocke spinning, squash, table tennis, tennis, hiking, volleyball and health physical education. Students may choose one of above descr and available capacity. | | |

A0M03TVIII Physical Education III

Physical Education

03TV

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.

A0M03TVIV Physical Education IV

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.

A0M03TVK Physical Education Course

Ζ

List of courses of this pass:

| Code | Name of the course | | Credits | | | |
|---|---|---|---------|--|--|--|
| 03TV | Physical Education | Z | 1 | | | |
| The student can be | 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 education as well as gain basic | | | | | | |
| | nowledge 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 compat 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

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. A0M03TVIII 7 Physical Education III 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. A0M03TVIV Physical Education IV 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. A0M03TVK Physical Education Course ADIP25 Diploma Thesis Ζ 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 Thesis 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. AE0M14DIP Diploma Project 25 AE0M15DIP Master's thesis Ζ 25 AE0M16DIP Diploma thesis Ζ 25 AE0M16FI2 Z,ZK Philosophy II 4 The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology. AE0M16HT2 History of science and technology 2 Z,ZK 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 AE0M16MPS Psychology 4 AE0M16TE1 Theology Z.ZK 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. AE0M17DIP Diploma Thesis Ζ 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. AE0M33DIP Diploma Thesis 7 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 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. AE0M35DIP Diploma Thesis Ζ 25 AE0M37DIP Diploma Thesis Ζ 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. AE0M38DIP Diploma Thesis Ζ 25 AE4M99DIP **Master Thesis** Ζ 25 AE8M31APS Audio Processing and source coding Z,ZK 5 AE8M32AVL Audio-Video Processing Lab Ζ 2 AE8M32NOP **Network Optimization** Z.ZK 5 Video processing and source coding AE8M32VPS Z,ZK 5 AE8M37CDC Coding in Digital Communications Z,ZK 5 AE8M37CSL Communications and Signal Processing Laboratory Ζ 2 Z,ZK AE8M37RSY Radio Systems 5 AE8M37WDC Wireless Digital Communications Z,ZK 5 **BEEZM** Safety in Electrical Engineering for a master's degree Ζ 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.

For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2024-05-19, time 12:29.