

## Recommended pass through the study plan

### Name of the pass: Branch Communications and Signal Processing - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department: Department of Radioelectronics

Pass through the study plan: Otevřeně elektronické systémy - Komunikace a zpracování signálu

Branch of study guaranteed by the department: Communications and Signal Processing

Guarantor of the study branch: prof. Ing. Jan Sýkora, CSc.

Program of study: Open Electronic Systems

Type of study: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
BEZM	<b>Safety in Electrical Engineering for a master's degree</b> Vladimír K la, Radek Havlí ek, Ivana Nová, Josef ernohous, Petr Novák, Zden k Burián, Adam Bou a, Pavel Mlejnek <b>Radek Havlí ek</b> Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	P
A8M01ADP	<b>Algorithms for Distributed and Parallel Systems</b> Peter Macejko, Lukáš Kencl <b>Lukáš Kencl</b> Peter Macejko (Gar.)	Z,ZK	5	3P+1S	Z	PO
A8M37WDC	<b>Wireless Digital Communications</b> Zden k Be vá , Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	5	4P+0C	Z	PO
A8M32NOP	<b>Network Optimization</b> Leoš Bohá <b>Lukáš Kencl</b> Leoš Bohá (Gar.)	Z,ZK	5	4P + 0C	Z	PO
A8M32AQT	<b>Applied Queueing Theory</b> Petr Hampl <b>Petr Hampl</b> Petr Hampl (Gar.)	Z,ZK	6	3P + 1C	Z	PO
MOESVOL	<b>Volitelné p edm ty</b>	Min. cours. 0	Min/Max 0/999			V

Number of semester: 2

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
A8M37CDC	<b>Coding in Digital Dommunications</b> Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	5	4P+0C	L	PO
A8M37CSL	<b>Communications and Signal Processing Laboratory</b> Jan Sýkora <b>Lukáš Kencl</b> Jan Sýkora (Gar.)	Z	2	0P+2C	L	PO
A8M31APS	<b>Audio processing and source coding</b>	Z,ZK	5	4P	L	PO
MOESH	<b>Humanitní p edm ty</b> B0M16FI2,B0M16HT2,..... (see the list of groups below)	Min. cours. 1	Min/Max 4/20			V
MOESVOL	<b>Volitelné p edm ty</b>	Min. cours. 0	Min/Max 0/999			V

Number of semester: 3

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
A8M32AVL	<b>Audio-Video Processing Lab</b> Pavel Zahradník, Petr Pollák Pavel Zahradník (Gar.)	Z	2	0P + 2L	Z	PO

A8M37RSY	<b>Radio Systems</b> <i>Pavel Ková Pavel Ková (Gar.)</i>	Z,ZK	5	4P+0L	Z	PO
A8M32VPS	<b>Video processing and source coding</b> <i>Pavel Zahradník Pavel Zahradník (Gar.)</i>	Z,ZK	5	4P + 0C	Z	PO
MOESVOL	<b>Volitelné p edm ty</b>	Min. cours. 0	Min/Max 0/999			V

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
ADIP25	<b>Diploma Thesis</b>	Z	25	36s	L	P
MOESVOL	<b>Volitelné p edm ty</b>	Min. cours. 0	Min/Max 0/999			V

### List of groups of courses of this pass with the complete content of members of individual groups

Kód	Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)	Completion	Credits	Scope	Semester	Role
<b>MOESH</b>	<b>Humanitní p edm ty</b>	Min. cours. <b>1</b>	Min/Max 4/20			V
B0M16FI2	Philosophy 2	B0M16HT2	History of science and technolog ...	B0M16HSD	History of economy and social st ...	
B0M16MPS	Psychology	B0M16TE1	Theology			
<b>MOESVOL</b>	<b>Volitelné p edm ty</b>	Min. cours. <b>0</b>	Min/Max 0/999			V

### List of courses of this pass:

Code	Name of the course	Completion	Credits
A8M01ADP	Algorithms for Distributed and Parallel Systems	Z,ZK	5
A8M31APS	Audio processing and source coding	Z,ZK	5
A8M32AQT	Applied Queueing Theory	Z,ZK	6
A8M32AVL	Audio-Video Processing Lab	Z	2
A8M32NOP	Network Optimization	Z,ZK	5
A8M32VPS	Video processing and source coding	Z,ZK	5
A8M37CDC	Coding in Digital Dommunications	Z,ZK	5
A8M37CSL	Communications and Signal Processing Laboratory	Z	2
A8M37RSY	Radio Systems	Z,ZK	5
A8M37WDC	Wireless Digital Communications	Z,ZK	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.			
B0M16FI2	Philosophy 2	Z,ZK	4
The course is oriented on the transdisciplinary 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 Czech society in the 19th - 21th centuries. It follows the forming of the Czech political representation, its aims and achieved results as well as the social and cultural development and coexistence of the various ethnical groups in the Czech countries.			
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 grows our civilization up.			

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

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