

Recommended pass through the study plan

Name of the pass: Branch RF and DSp Engineering - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Otevřeně elektronické systémy - Vysokofrekvenční a digitální technika

Branch of study guaranteed by the department: Welcome page

Guarantor of the study branch:

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	Safety in Electrical Engineering for a master's degree Vladimír Křel, Radek Havlíček, Ivana Nová, Josef Černohous, Pavel Mlejnek Radek Havlíček Vladimír Křel (Gar.)	Z	0	2BP+2BC	Z	P
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
MOESVOL	Volitelné předměty	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
A8M17AEC	Antennas and EMC Jan Kráček, Pavel Házdra, Miloš Mazánek Jan Kráček Miloš Mazánek (Gar.)	Z,ZK	5	3P+1L	L	PO
A8M37CAD	CAD and Numerical Methods in RF Engineering	KZ	3	2P+0C	L	PO
MOESH	Humanitní předměty B0M16FI2,B0M16HT2,..... (see the list of groups below)	Min. cours. 1	Min/Max 4/20			V
MOESVOL	Volitelné předměty	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
A8M37ART	Architectures of Rx/Tx Systems	Z,ZK	5	4P+0C	Z	PO
A8M17WCP	Wireless Channels&Propagation	Z,ZK	5	4P+0C	Z	PO
A8M37RML	Radio Systems Measurement Lab	Z	5	0P+4L	Z	PO
MOESVOL	Volitelné předměty	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	Diploma Thesis	Z	25	36s	L	P
MOESVOL	Volitelné p edm ty	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
MOESH		Humanitní p edm ty		Min. cours. 1	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					
MOESVOL		Volitelné p edm ty		Min. cours. 0	Min/Max 0/999			v

List of courses of this pass:

Code	Name of the course	Completion	Credits
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.			
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 European and Czech society in the 19th - 21st 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 grows our civilization up.			

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

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