Recomended pass through the study plan

Name of the pass: Specialization Audiovisual Technology and Signal Processing - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering Department:

Pass through the study plan: Electronics and Communications - Audiovisual Technology and Signal Processing Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Electronics and Communications

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 K la, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Ρ
B2M37MAM	Microprocessors Petr Skalický, Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	6	2P+2L	Z	Ρ
B2M37OBT	Image Technology Lukáš Krauz, Petr Páta, Miloš Klíma Karel Fliegel Petr Páta (Gar.)	Z,ZK	6	2p+2l	Z	Ρ
B2M31DSP	Advanced DSP methods Pavel Sovka, Petr Pollák Pavel Sovka Pavel Sovka (Gar.)	Z,ZK	6	2P+2C	Z,L	Ρ
B2M31SYN	Synthesis of Audio Signals Roman mejla Roman mejla Roman mejla (Gar.)	Z,ZK	6	2P+2C	Z	Ρ
B2M99ZVT	Audio technology 1 Ond ej Ji í ek, Libor Husník, František Rund František Rund Ond ej Ji í ek (Gar.)	Z,ZK	6	2P+2L	Z	Ρ

Number of seme	ester: 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 Semeste		Semester	Role	
B2M32BTSA	Wireless Technologies Zden k Be vá , Lukáš Vojt ch, Zbyn k Kocur, Pavel Mach Ján Ku erák Zden k Be vá (Gar.)	Z,ZK	6	2P + 2L	L	Ρ
B2M37KASA	Compression of images and signals Stanislav Vítek, Karel Fliegel, František Rund, Václav Vencovský Karel Fliegel Stanislav Vítek (Gar.)	Z,ZK	6	2P+2C	L	Ρ
B2M31ZRE	Speech Processing Petr Pollák Petr Pollák Petr Pollák (Gar.)	Z,ZK	6	2P+2C	L	Ρ
	Povinn volitelné p edm ty programu B2M31ADAA,B2M31AEDA, (see the list of groups below)	Min. cours.				
		5	Min/Max			
2018_MEKPV2		Max. cours.	30/30			PV
		5				

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 Semes		Semester	Role	
B2MPROJ6	Project František Rund, Ji í Jakovenko, Pavel Máša, Ivan Pravda, Jan Šístek, Lubor Jirásek, Tomáš Zeman, Ladislav Oppl František Rund František Rund (Gar.)	Z	6	0p+6s	Z,L	Ρ
2018_MEKPV2	Povinn volitelné p edm ty programu B2M31ADAA,B2M31AEDA, (see the list of groups below)	Min. cours. 5 Max. cours. 5	Min/Max 30/30			PV
2018_MEKVOL	Volitelné odborné p edm ty2018	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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role	
BDIP25	Diploma Thesis	Z	25	22s	L	Р	
2018_MEKVOL	Volitelné odborné p edm ty2018	Min. cours.	Min/Max			V	
		0	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 o group (for specificati	f courses and on see here o	d codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
2018_ME	EKPV2	Povinn v	volitelné p ed	m ty programu		. cours. 5 . cours. 5	Min/Ma			PV
B2M31ADAA	Adaptive s	ignal processing	B2M31AEDA	Experimental Data Analysis		BAM31B	SG	G Biological signals		
B2M37DTRA	Digital Vide	eo and Audio Broadcas	B0M37FAV	Physiology and modeling of heari .		. B2M37MOTA Advanced areas in image and vide			nd vide	
B2M37OBFA	Image Pho	otonics	B2M37SSPA	Statistical Signal Processing		B2M37T/	AV .	Technology of	Audiovisual P	roduc
B2M31ZASA	Analog Sig	nal Processing	B2M37ZV2A	Audio Technology 2						
2018_MEKVOL Volitelné odborné		né odborné p	edm ty2018	Min.	cours. 0	Min/Ma 0/999			v	

List of courses of this pass:

Code	Name of the course	Completion	Credits
B0M37FAV	Physiology and modeling of hearing and vision	Z,ZK	6
The primary aim of	the course is to study the physiology of sensors and processes of perception of audio and visual information by human subjects as t	wo central and mo	st important
communication cha	annels, i.e., Human Auditory System (HAS) and Human Visual System (HVS). The course summarizes current knowledge in the field	l of human vision a	ind hearing
physiology and, at	the same time, presents their description using mathematical models using the latest computational tools and procedures, including	Machine Learning	(ML), Deep
Learning (DL) and	Artificial Intelligence (AI). Emphasis is also placed on current and prospective applications of the mentioned knowledge. The main app	lication area is the	audiovisual
technology related	to human perception, but the direct employment of the acquired knowledge also includes the areas of multimedia technology, control	systems, automatio	on, robotics,
safety and securit	y technology, bioinspired systems, etc. At the same time, students gain a general overview of information processing in biological sy	stems. A separate	part is the
objectification of a	udiovisual information perceived quality, i.e., Quality of Experience (QoE). The course is intended for students of master's degree in t	echnical fields. The	exercises
will be devoted to	fundamental experiments to determine the most important characteristics of HAS and HVS, including computational models and sin	ulation of vision a	nd hearing
	processes.		
B2M31ADAA	Adaptive signal processing	Z,ZK	6
·	This course provides a basic discourse on adaptive algorithms for filtering, decorrelation, separation and beamforming.		
B2M31AEDA	Experimental Data Analysis	Z,ZK	6
In the course of s	ubject "Experimental Data Analysis", students will acquire knowledge regarding fundamental methods for data analysis and machine	e learning for evalu	ation and
interpretation of dat	a. In the course of practical lectures, students will solve individual tasks using real data from signal processing in neuroscience resea	rch. In the course of	of semestral

	I solve complex task and present obtained results. The aim of the subject is to introduce practical application of fundamental statistica students to use critical thinking and to acquire additional knowledge in solution of practical tasks.		
B2M31DSP	Advanced DSP methods	Z,ZK	6
	the basic course in signal processing and introduces advanced methods of analysis and digital signal processing. Graduates will learn		-
	le to practically use them. They learn to know the conditions of use of correlation, spectral and coherent analysis of random signals.		
methods of signal of	decomposition and independent component analysis and the time-frequency transformations. Emphasis will be placed on an ability to	o interpret the resu	lts of signal
	analyses.		
B2M31SYN	Synthesis of Audio Signals	Z,ZK	6
	ces the fundamentals of sound synthesis algorithms (everyday, music and speech), digital audio effects and sonification. Audio synthe	-	
digital systems, vin	tual reality systems, computer animations, games and film. Understanding of theoretical concepts will be consolidated through praction in Matlab.	cai programming a	ssignments
B2M31ZASA	Analog Signal Processing	Z,ZK	6
	Analog Signal Processing ith analog input-output blocks for signal transmission and processing. They discussed circuit solution of amplifiers and filters, including the	,	
	it. Students learn the circuit concepts and possibilities for solving the contemporary analogue structures. The second part of the cour		
	ation of analog filters, including discrete-time circuits. The conclusion is devoted to the possibilities of computer optimization of electro		-
B2M31ZRE	Speech Processing	Z,ZK	6
The subject is deve	oted to basis of speech processing addressed to students of master program. Discussed speech technology is currently applied in m		erent fields
(e.g. information dia	alogue systems, voice controlled devices, dictation systems or transcription of audio-video recordings, support for language teaching,	etc.). Students will	learn basic
	eech analysis (spectral analysis, LPC, cepstral analysis, pitch, formants, etc.), principles of speech recognition (GMM-HMM, ANN-HM	-	and large
	ulary recognizers), speaker recognition (based on VQ and GMM), speech synthesis or speech enhancement. Further information car		
href=http://n	oel.feld.cvut.cz/vyu/ae2m31zre>http://noel.feld.cvut.cz/vyu/ae2m31zre. Pro zapsané studenty jsou detailní informace na	výukovém portálu	<a< td=""></a<>
	href=https://moodle.fel.cvut.cz>Moodle FEL.	Z,ZK	0
B2M32BTSA	Wireless Technologies verview of fundamental principles of wireless networks in various areas of their application. Students will understand architecture, pr		6
•	choologies and learn how these technologies can be exploited in real world applications. The goal is to teach students how to solve p		
	of wireless networks, their operation or development of wireless networks components.		aopiojinoni
B2M37DTRA	Digital Video and Audio Broadcasting	Z.ZK	6
	students familiar with topics related to video and audio transmission. Described are methods of data stream creation, methods of so	, ,	-
correction principle	s and modulation formats. Attention is paid to transmission systems standards with regard to transmission channel properties. The sub	ject also deals with	multimedia
	data services and with measurement in transmission systems.		
B2M37KASA	Compression of images and signals	Z,ZK	6
-	vith compression methods and techniques. Main goal is to introduce basic concepts of lossless and lossy compresion of audiovisual info		-
	Within the laboratory exercises students will work with implementations of particular algorithms, including objective and subjective m		
B2M37MAM	Microprocessors	Z,ZK	6
	students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect extern		
	tation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C	Ianguage and cor	ndination of
	ation of this subject student should be able to design and implement simpler micropropagate system including connection of pagagat	ry paripharala and	
both. After compl	etion of this subject student should be able to design and implement simpler microprocessor system including connection of necessa design	ary peripherals and	
-	design.		l software
B2M37MOTA	design. Advanced areas in image and video technology	Z,ZK	l software 6
B2M37MOTA This course focuse	design.	Z,ZK areas of technical	software 6 professions
B2M37MOTA This course focuse dealing with hum	design. Advanced areas in image and video technology s on the state-of-the-art techniques for digital image and video technology. These techniques and their applications cover almost all a	Z,ZK areas of technical e functional blocks	6 professions of related
B2M37MOTA This course focuse dealing with hum imaging systems. T	design. Advanced areas in image and video technology as on the state-of-the-art techniques for digital image and video technology. These techniques and their applications cover almost all a an interaction. A significant part of the course is focused on the methods of image signal processing and main hardware and software he aim of the laboratory exercises is to familiarize with advanced methods for capturing, processing and reproduction of image inform in this area, the content of the lectures and exercises is being continuously updated.	Z,ZK areas of technical p e functional blocks ation. Due to the fa	6 professions of related
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The course provi	des for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical haza	ard of given branch	of study.
	Students receive indispensable qualification according to the current Directive of the Dean.		

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