Recomended pass through the study plan

Name of the pass: Elektronika a komunikace - Komunikace a zpracování informace

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Pass through the study plan: Electronics and Communications 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 seme	ester: 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.)		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
B2M31DSP	Advanced DSP methods Pavel Sovka, Petr Pollák Pavel Sovka (Gar.)	Z,ZK	6	2P+2C	Z,L	Ρ
B3M35DRS	Dynamics and Control Networks Kristian Hengster-Movric Kristian Hengster-Movric	Z,ZK	6	2P+2C	Z	PV
B2M32MKSA	Mobile Networks Zden k Be vá, Robert Bešák, Pavel Mach Pavel Mach Zden k Be vá (Gar.)	Z,ZK	6	2P + 2L	Z	PV
2021_MEKVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

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.)		Credits	Scope	Semester	Role
B2M32BTSA	Wireless Technologies Zden k Be vá , Pavel Mach, Lukáš Vojt ch, Zbyn k Kocur Ján Ku erák Zden k Be vá (Gar.)	Z,ZK	6	2P + 2L	L	Ρ
B2M37KDKA	Coding in digital communications Jan Sýkora Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	3P+1C	L	PV
B2M37KASA	Compression of images and signals Karel Fliegel, Stanislav Vítek, František Rund, Václav Vencovský Karel Fliegel Stanislav Vítek (Gar.)	Z,ZK	6	2P+2C	L	PV
		Min. cours.				
2021_MEKPV8B	Povinn volitelné p edm ty programu B2M31ADAA,B2M37CIR, (see the list of groups below)	5	Min/Max			
		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	n Credits Scope Semester		Role	
B2M37MAM	Microprocessors Stanislav Vítek, Petr Skalický Stanislav Vítek Stanislav Vítek (Gar.)	Z,ZK	6	2P+2L	Z	Р

B2MPROJ6	Project František Rund, Ivan Pravda, Ji í Jakovenko, Pavel Máša, Jan Šístek, Lubor Jirásek, Tomáš Zeman, Ladislav Oppl František Rund František Rund (Gar.)	Z	6	0p+6s	Z,L	Р
B2M37SEK	Synchronization and equalization in digital communications Jan Sýkora Jan Sýkora Jan Sýkora (Gar.)	Z,ZK	6	3P+1C	Z	PV
2021_MEKPV8B	Povinn volitelné p edm ty programu B2M31ADAA,B2M37CIR, (see the list of groups below)	Min. cours. 5 Max. cours. 5	Min/Max 30/30			PV

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
2021_MEKPV8B	Povinn volitelné p edm ty programu B2M31ADAA,B2M37CIR, (see the list of groups below)	Min. cours. 5 Max. cours. 5	Min/Max 30/30			PV

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

Kód		Name of the group of group (for specification	courses and on see here d	d codes of members of this or below the list of courses)	Com	pletion	Credit	ts Scope	Semester	Role
2021_ME	KPV8B			m ty programu	Min.	cours. 5 . cours. 5	Min/Ma	ax		PV
B2M31ADAA	Adaptive s	ignal processing	B2M37CIR	Implementation of the digital ci	1	B4M33D	B4M33DZO Digital image			
B2M32IBEA	Informatio	n Security	B3M35ORR	Optimal and Robust Control	B3M35PSR Real -Time Systems Programmi			nming		
B4M33SSU	Statistical	Machine Learning	B2M17SBS	7SBS Wave Propagation for Wireless Li B2M32THOA Queueing Theory						
B2M01TIK	Informatio	n Theory and Coding								
2021_ME	KVOL	Volite	elné odborné	pedm ty	Min.	cours. 0	Min/Ma 0/999			v

List of courses of this pass:

Code	Name of the course	Completion	Credits
B2M01TIK	Information Theory and Coding	Z,ZK	6
Fund	damentals of information theory with a view towards efficient data compression and reliable transmission of information using selfco	rrecting codes.	I
B2M17SBS	Wave Propagation for Wireless Links	Z,ZK	6
The aim of the cours	se is to study the wireless transmission channel in real environments focusing on wave propagation for planning of terrestrial and sate	llite wireless links.	The syllabus
includes both deepe	r theoretical foundations of radio wave propagation in the atmosphere as well as ITU-R design procedures for terrestrial and satellite, fix	ed and mobile com	munications
	in various frequency bands.		
B2M31ADAA	Adaptive signal processing	Z,ZK	6
•	This course provides a basic discourse on adaptive algorithms for filtering, decorrelation, separation and beamforming.		1
B2M31DSP	Advanced DSP methods	Z,ZK	6
The course follows t	he basic course in signal processing and introduces advanced methods of analysis and digital signal processing. Graduates will lear	n the methods of di	gital signals
analysis and be abl	e to practically use them. They learn to know the conditions of use of correlation, spectral and coherent analysis of random signals.	They will became f	amiliar with
methods of signal d	ecomposition and independent component analysis and the time-frequency transformations. Emphasis will be placed on an ability t	o interpret the resu	lts of signal
	analyses.		
B2M32BTSA	Wireless Technologies	Z,ZK	6
The lectures give or	verview of fundamental principles of wireless networks in various areas of their application. Students will understand architecture, pr	inciples and proto	cols used in
different wireless tee	chnologies and learn how these technologies can be exploited in real world applications. The goal is to teach students how to solve p	roblems related to	deployment
	of wireless networks, their operation or development of wireless networks components.		

B2M32IBEA Information Security	Z,ZK	6
The Information Security course provides a complete source of information on the field of security of information systems and information technologies	s. The most of informat	tion in today
society is created, transferred, stored in electronic form so information security is very important part of it. Technical background for information security is very important part of it.	curity is provided by c	ryptology.
B2M32MKSA Mobile Networks	Z,ZK	6
The lectures introduce principles and functionalities of mobile networks with special focus on currently deployed technologies and future mobile networks	works. Furthermore, a	rchitecture
and fundamental principles of GSM, UMTS, LTE/LTE-A, and 5G will be explained. Then, selected key technologies for future mobile network	s (6G) will be explain	ed.
B2M32THOA Queueing Theory	Z,ZK	6
The aim of the course is to present an overview of dimensioning of telecommunication networks on the basis of results of the queuing theory (QT)	and to introduce poss	ibilities of
simulation and modelling of networks, both from the point of view of grade of service (GoS) and quality of service (QoS). Results of the QT are app	lied on different servic	e systems
and telecommunication networks being currently operated and developed. Theoretical knowledge about models of service systems can be applied or	dimensioning of diffe	rent service
systems in real life - not only on the telecommunications one.		
B2M37CIR Implementation of the digital circuits in Radio	Z,ZK	6
The course is base for student, which want practically designed circuits of the digital signal processing with the signal processors and specialised circ		
realisation of the modulators and circuit of the numerical conversion of the signal, algoritms coding/decoding, which contains in the communication c	hain. Dominantly is co	oncentration
to effective realization with minimal computing power.		
B2M37KASA Compression of images and signals	Z,ZK	6
The subject deals with compression methods and techniques. Main goal is to introduce basic concepts of lossless and lossy compression of audiovisual		-
and irrelevancy). Within the laboratory exercises students will work with implementations of particular algorithms, including objective and subjective	e methods of quality e	valuation.
B2M37KDKA Coding in digital communications	Z,ZK	6
This course extends and deepens the topics of the basic communication theory courses in the following main areas. 1) Advanced information theory in	n coding and Network	Information
Theory develop a framework for understanding the principles of the channel coding in single-user and multi-node/multi-user scenarios. 2) The algebrai		-
of block and convolutional codes. 3) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding. 4) Advanced coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding technique focuses on turbo, LDPC, Space-Time codes and Wireless Network Coding technique focus	nced decoding technic	que, namely
iterative and multi-user decoding is a fundamental tool for decoding capacity approaching channel codes.		
B2M37MAM Microprocessors	Z,ZK	6
The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect ext	ernal circuit to the pro	cessor 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	e, C language and cor	nbination of
both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of nece	ssary peripherals and	software
design.		
B2M37SEK Synchronization and equalization in digital communications	Z,ZK	6
We explain principles of the receiver signal processing (synchronization and equalization) for the parametric channel including variety of the implement	entation possibilities. V	Ve focus on
the essential particular forms of the channel phase, frequency and timing parameterization, channels with multipath propagation and MIMO char	-	
synchronization and equalization in the context of the data decoding in the parametric channel. All basic categories of the CSE algorithms are targeted		ack, iterative
and recursive, including the theoretical background of the parameter estimation theory, and theory of the feed-back and iterativ		
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B2MPROJ6 Project	Z	6
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BEZM	Safety in Electrical Engineering for a master's degree	Z	0
The course prov	des for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical haza	ard of given branch	n of study.
	Students receive indispensable qualification according to the current Directive of the Dean.		

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