Recomended pass through the study plan

Name of the pass: Medical electronics and bioinformatics - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Pass through the study plan: Medical electronics and bioinformatics Branch of study guranteed by the department: Common courses Guarantor of the study branch: Program of study: Medical Electronics and Bioinformatics Type of study: Bachelor 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.)	Completion	Credits	Scope	Semester	Role
BEZB	Safety in Electrical Engineering for a bachelor's degree Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Ρ
B0B01LAGA	Linear Algebra Ji í Velebil, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
B0B01MA1A	Mathematical Analysis 1 Josef Dvo ák, Karel Pospíšil, Veronika Sobotíková Veronika Sobotíková Veronika Sobotíková (Gar.)	Z,ZK	6	4P+2S	Z	Ρ
BEZZ	Basic health and occupational safety regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Ρ
BAB31AF1	Fundamentals of Anatomy and Physiology I Václav Kvítek Václav Kvítek Václav Kvítek (Gar.)	KZ	4	2P+2L	Z	Р
2018_BBIOPROG	Programování B3B33ALP,BAB37ZPR	Min. cours. 1 Max. cours. 2	Min/Max 6/12			PV
2018_BBIOMP	Úvod do inženýrství BAB31UBI,B2B15UELA	Min. cours. 1 Max. cours. 2	Min/Max 4/8			PV
2018_BBIOVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of ser	mester: 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
B0B01DRN	Differencial Equations and Numerical Analysis Daniel Gromada, Josef Dvo ák, Karel Pospíšil, Petr Habala Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Ρ
B3B02FY1A	Physics 1 Petr Koní ek, Michal Bedna ík Michal Bedna ík Michal Bedna ík (Gar.)	Z,ZK	7	4P+1L+2C	L	Р
B0B01MA2	Mathematical Analysis 2 Karel Pospíšil, Petr Hájek, Martin Bohata, Jaroslav Tišer, Miroslav Korbelá , Paola Vivi, Hana Tur inová Petr Hájek Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L,Z	Ρ
BAB36PRGA	Programming in C Jan Faigl Jan Faigl Jan Faigl (Gar.)	Z,ZK	6	2P+2C	L	Ρ

BAB31AF2	Fundamentals of Anatomy and Physiology II Michal Šteffl, Jana Jaklová Dytrtová Michal Šteffl Michal Šteffl (Gar.)	Z,ZK	4	2P+2L	L	Р
B2B31ZEOA	Fundamentals of Electric Circuits Roman mejla, Pavel Máša Roman mejla Roman mejla (Gar.)	Z,ZK	5	2P+2L	L	Р

Number of seme	ster: 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
BAB02CHE	Chemistry for Bioengineering Jan P ech, Michal Mazur Jan P ech Jan P ech (Gar.)	Z,ZK	3	2P+1L	Z	Р
B2B38EMBA	Electrical Measurements Jakub Svatoš Jakub Svatoš Jakub Svatoš (Gar.)	Z,ZK	5	2P+2L	Z	Р
BAB17EMP	Electromagnetic Field	Z,ZK	5	2P+2C	Z	Р
B3B02FY2	Physics 2 Michal Bedna ík Michal Bedna ík Michal Bedna ík (Gar.)	Z,ZK	6	3P+1L+2C	Z	Р
B0B01KAN	Complex Analysis Martin Bohata, Hana Tur inová, Zden k Mihula Martin Bohata Martin Bohata (Gar.)	Z,ZK	5	2P+2S	Z	Ρ
BAB31ZZS	Basic Signal Processing Radek Jan a Radek Jan a Roman mejla (Gar.)	ΚZ	4	2P+2C	Z	Р
2018_BBIOPV	Povinn volitelné p edm ty B4B33ALG,BAB37APO, (see the list of groups below)	Min. cours. 3	Min/Max 14/85			PV

Number of seme	ester: 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
BAB02BFY	Biophysics Vratislav Fabián, Lukáš Matera, Ladislav Sieger, Jaroslav Jíra Vratislav Fabián Vratislav Fabián (Gar.)	Z,ZK	4	2P+2L	L	Ρ
B4M33DZO	Digital image Daniel Sýkora, Ond ej Drbohlav Daniel Sýkora Daniel Sýkora (Gar.)	Z,ZK	6	2P+2C	Z,L	Р
B2B31EO1	Electronic Circuits 1 Jan Havlík, Ji í Hospodka, Tomáš Kouba Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	4	2P+2L	L	Ρ
B2B37SAS	Signals and systems Václav Navrátil, Karel Fliegel, Pavel Puri er Karel Fliegel (Karel Fliegel (Gar.)	Z,ZK	5	2P+2C	L	Р
B0B01STP	Statistics and Probability Miroslav Korbelá, Kate ina Helisová, Jakub Stan k, Bogdan Radovi Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S	L	Ρ
2018_BBIOPV	Povinn volitelné p edm ty B4B33ALG,BAB37APO, (see the list of groups below)	Min. cours. 3	Min/Max 14/85			PV

Number of sem	nester: 5					
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
BAB34BMS	Biomedical sensors Adam Bou a, Alexandr Laposa, Miroslav Husák, Jan Novák Miroslav Husák Miroslav Husák (Gar.)	Z,ZK	4	2P+2L	z	Ρ
BAB31GEN	Genetics Eduard Ko árek Eduard Ko árek Eduard Ko árek (Gar.)	ZK	3	2P	Z	Ρ
B0B33OPT	Optimization Mirko Navara, Tomáš Werner, Petr Olšák, Tomáš Kroupa Tomáš Werner Tomáš Werner (Gar.)	Z,ZK	7	4P+2C	Z,L	Ρ
BBPROJ4	Bachelor Project Veronika Sobotíková, Jan Kybic, Roman mejla, Radek Jan a Jan Kybic Roman mejla (Gar.)	Z	4	4s	Z,L	Ρ
B4B33RPZ	Recognition and machine learning Ond ej Drbohlav, Ji í Matas, Jan Šochman Ond ej Drbohlav Ji í Matas (Gar.)	Z,ZK	6	2P+2C	Z	Ρ
2018_BBIOPV	Povinn volitelné p edm ty B4B33ALG,BAB37APO, (see the list of groups below)	Min. cours. 3	Min/Max 14/85			PV

Number of semester: 6

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
BBAP20	Bachelor thesis Roman mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Р
2018 BBIOVOL		Min. cours.	Min/Max			N/
	Volitelné odborné p edm ty	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 of group (for specificat	of courses and tion see here of	d codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
2018_B	BIOMP		Úvod do inže	nýrství		cours. 1 cours. 2	Min/M a 4/8	ах		PV
BAB31UBI	Introductio	n to bioengineering	B2B15UELA	Introduction to Electrical Engin			1			
	•		·		Min.	cours.				
			_			1	Min/Ma	ax		
2018_BB	OPROG		Programo	mování		cours.	6/12			PV
						2				
B3B33ALP	Algorithms	and programming	BAB37ZPR	Programming Essentials			1		1	
					Min.	cours.	Min/Ma	ax		
2018_B	BIOPV	Pov	inn volitelné	p edm ty		3	14/85	5		PV
B4B33ALG	Algorithms	j	BAB37APO	Applied Optics	I	2241068		Biomechanics	for Bachelors	
BAB34BSP	Biomedica	I Sensors Practically	B0B36DBS	Database Systems		B2B31E	02	Electronic Cir	cuits 2	
B3B33KUI	Cybernetic	s and Artificial Intel	B3B38LPE	Laboratories of Industrial Elect		B3B33LA	AR 🛛	Laboratory of	robotics	
B0B01LGR	Logic anac	d Graphs	BAB34MNS			B2B34M	IK	Microcontrolle	ers	
B4B38NVS	Embedded	Systems Design	B4B01NUM	Numerical Analysis		B3B33R	ОВ	Robotics		
B2B17TBK	Wireless C	Communication Technique	B0B02UAK	Introduction to Acoustic		B4B36ZU	JI	Introduction to	o Artificial Intel .	
2018_BI	BIOVOL	Voli	telné odborné	p edm ty	Min.	cours. 0	Min/Ma 0/999			v

List of courses of this pass:

Code	Name of the course	Completion	Credits
2241068	Biomechanics for Bachelors	Z,ZK	3
B0B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	4
This course introdu	ces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth	nods (errors in calc	ulations and
stability, numerica	I solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretic	al and practical po	int of view.
B0B01KAN	Complex Analysis	Z,ZK	5
B0B01LAGA	Linear Algebra	Z,ZK	7
B0B01LGR	Logic anad Graphs	Z,ZK	5
This course covers	basics of mathematical logic and graph theory. Syntax and semantics of propositional and predicate logic are introduced. The importanc	e of the notion of c	onsequence
	and of the relationship between a formula and its model is stressed. Further, basic notions from graph theory are introduce	d.	
B0B01MA1A	Mathematical Analysis 1	Z,ZK	6
	This is an introductory course to differential and integral calculus of functions of one real variable.		•
B0B01MA2	Mathematical Analysis 2	Z,ZK	7
The subject cover	s an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals	Other part contain	ns function
	series and power series with application to Taylor and Fourier series.		
B0B01STP	Statistics and Probability	Z,ZK	5
B0B02UAK	Introduction to Acoustic	KZ	4
The subject prov	vides overview of main parts of acoustics. In first lectures there is introduction to basic types of sound fields, its solutions and propert	ies. Next chapter d	leals with
introduction to build	ding and room acoustics. The second half of the course deals with introductions to physiological acoustics, psychoacoustics, musical	l acoustics, hygien	e legislation
	and ultrasound, infrasound and their measurement.		

B0B33OPT	Optimization	Z,ZK	7
The course provide	s an introduction to mathematical optimization, specifically to optimization in real vector spaces of finite dimension. The theory is illustrated	ted with a number of	of examples.
	You will refresh and extend many topics that you know from linear algebra and calculus courses.		
B0B36DBS	Database Systems	Z,ZK	6
-	ned as a basic database course mainly aimed at the student ability to design a relational data model and to use the SQL language f		
data querying and	to choose the appropriate degree of transaction isolation. Students will also get acquainted with the most commonly used indexing architecture and their management. They will verify their knowledge during the elaboration of a continuously submitted seminar		ase system
	Introduction to Electrical Engineering	KZ	4
B2B15UELA			4
B2B17TBK	Wireless Communication Technique ations belong to the fastest developing technical fields. Besides widely used mobile telephony systems, this field also includes many of	KZ	4
	tems. Different types of radio modems are also built in the majority of electronic devices like PCs, tablets, notebooks, cameras, etc. W		
	s, operation of billions of wireless sensors is expected. The subject is common to all students of the Electronics and Communication st		•
°	tant aspects of this technical branch. Obtained knowledge should enable the students to design, project, adjust or manufacture any w		
or its components. E	Besides wireless system analysis, the lectures include review of physical backgrounds, survey of the most important existing radio system	ns together with co	rresponding
operational freque	encies, description of electromagnetic wave propagation and related antennas. Instructions concerning propagation also cover behave	vior of EM waves in	n an urban
	nside buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave		
	ises include practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and rela		
B2B31EO1	Electronic Circuits 1	Z,ZK	4
	es basic circuits with operational amplifiers, continues with the description of linear systems, analysis of their characteristics and fundal	-	
filters. It deals with	the principles and features of circuits for generating signals and a controlled oscillator including the PLL circuit and its use. The last p	eart of the course is	s devoted to
	basic amplifier stages with transistors.	7 71/	4
B2B31EO2	Electronic Circuits 2	Z,ZK	4
	on the basic electric circuits course. It introduces multistage transistor amplifiers and basic applications in the field of electronic syste neasurement of electronic systems, including nonlinear applications with regard to the real characteristics of operational amplifiers. N		
with design and r	parameters of power amplifiers, linear stabilizers, switching power supply and D/A and A/D converters are presents.	ext operating prin	cipies and
B2B31ZEOA	Fundamentals of Electric Circuits	Z,ZK	5
B2B34MIK	Microcontrollers	Z,ZK	4
-	burse is to make students acquainted with recent interesting applications, smart sensors circuits and peripherals handled by microcol		
-	in applications and measure actual properties. Because of usage of a programming language C it will be possible to focus on the pra		
B2B37SAS	Signals and systems	Z,ZK	5
	focused on a description of continuous- and discrete-time signals and systems in time and frequency domains. The course also introd		-
-	of bandpass signals, analog modulations and random signals.		
B2B38EMBA	Electrical Measurements	Z,ZK	5
Methods of meas	urement of electrical quantities (voltage, current, power, frequency, resistance, capacitance, and inductance) are explained together v	with principles of th	neir correct
application and ac	curacy estimation. The course is closed by presenting information on several basic electronic measuring instruments and explaining	the fundamentals (of magnetic
			or magnotio
	measurements and basic information concerning measurement systems.		-
B3B02FY1A	measurements and basic information concerning measurement systems. Physics 1	Z,ZK	7
The basic course o	measurements and basic information concerning measurement systems. Physics 1 f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first	Z,ZK st one is a classica	7 I mechanics
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B4B01NUM	Numerical Analysis	Z,ZK	6
The course introd	uces to basic numerical methods of interpolation and approximation of functions, numerical differentiation and integration, solution of	transcendent equ	ations and
systems of linea	r equations. Emphasis is put on estimation of errors, practical skills with the methods and demonstration of their properties using Ma	ple and computer	graphics.
B4B33ALG	Algorithms	Z,ZK	6
In the course, the a	Igorithms development is constructed with minimum dependency to programming language; nevertheless the lectures and seminars	are based on Java	. Basic data
types a data stru	ctures, basic algorithms, recursive functions, abstract data types, stack, queues, trees, searching, sorting, special application algorith	ims, Dynamic prog	ramming.
	Students are able to design and construct non-trivial algorithms and to evaluate their effectivity.		
B4B33RPZ	Recognition and machine learning	Z,ZK	6
	ions of the statistical decision problem are presented. The necessary knowledge about the (statistical) relationship between observat		-
	ng on the raining set. The course covers both well-established and advanced classifier learning methods, as Perceptron, AdaBoost, S		
Neural Nets. This of	course is also part of the inter-university programme prg.ai Minor. It pools the best of AI education in Prague to provide students with	a deeper and broa	ader insight
	into the field of artificial intelligence. More information is available at https://prg.ai/minor.		
B4B36ZUI	Introduction to Artificial Intelligence	Z,ZK	6
	rse is to cover the basics of symbolic artificial intelligence. We will focus on algorithms of informed and uninformed state space searc	-	
	tation of knowledge using formal logic, methods of automated reasoning, and an introduction to Markov decision making, and to two-		
also part of the l	nter-university programme prg.ai Minor. It pools the best of AI education in Prague to provide students with a deeper and broader ins	ight into the field o	rartificial
	intelligence. More information is available at https://prg.ai/minor.	7 71/	<u>^</u>
B4B38NVS	Embedded Systems Design	Z,ZK	6
D (1 400 D 70	The course deals with design of embedded systems using ARM based microcontrollers.	7 71/	0
B4M33DZO	Digital image	Z,ZK	6
	ents an overview of basic methods for digital image processing. It deals with practical techniques that have an interesting theoretical		
	ingly abstract concepts from mathematical analysis, probability theory, or optimization come to life through visually engaging applications and page fittering and pa		
	bles (signal sampling and reconstruction, monadic operations, histogram, Fourier transform, convolution, linear and non-linear filterin		-
techniques, includ	ling image stitching, deformation, registration, and segmentation. Students will practice the selected topics through six implementatio learn the theoretical knowledge from the lectures and use it to solve practical problems	in tasks, which will	neip inem
		7 71/	4
BAB02BFY	Biophysics	Z,ZK	-
	used on physical processes associated with blood flow and blood gas exchange, including description of events on biological membra nced hemodynamic parameters of the bloodstream are discussed. A large space is devoted to the problems of hemodialysis and per		
	er students are acquainted with the properties of human tissue and body fluids, including methods of their measurement. This knowle		
	d acoustics, always in relation to biological systems. Part of the course are laboratory exercises in a modern laboratory, which suitab		-
	knowledge of students from lectures.		liteoretical
BAB02CHE	Chemistry for Bioengineering	Z.ZK	3
	rn the basic areas of applied chemistry in biomedical engineering and technology. At the same time, this course will introduce other of	, ,	1
	es, students should acquire basic laboratory techniques used in chemical laboratories focused primarily on the analysis of substance	-	-
	exercises are preceded by exercises focused on practical calculations for laboratory practice.		aboratory
BAB17EMP	Electromagnetic Field	Z,ZK	5
	This course gets its students acquinted with principles and applied electromagnetic field theory basics.	۲,۲۲	5
BAB31AF1	Fundamentals of Anatomy and Physiology I	KZ	4
BAB31AF2	Fundamentals of Anatomy and Physiology I	Z,ZK	4
BAB31GEN	Genetics	ZK	3
	les students of technical dsciplines with basic information about genetics with an emphasis on modern genetic disciplines and knowl		-
	ical electronics and especially bioinformatics. The focus is on the organization and function of the human genome, including its possil		
	echniques used to determine them. Students will also learn basic information about clinical genetics, genetic counseling, genetic tes		-
	sues. The conclusion of the course also deals with original and modern approaches enabling targeted editing of the genome, especia		
	ity of the curriculum is oriented towards the human organism, knowledge about the genetics of other living systems - especially proka		
	the teaching.	,	
BAB31UBI	Introduction to bioengineering	KZ	4
	The course presents the basics of biomedical engineering and provides illustrative examples of projects performed by the faculty		I
BAB31ZZS	Basic Signal Processing	KZ	4
BAB34BMS	Biomedical sensors	Z,ZK	4
BAB34BSP	Biomedical Sensors Practically	KZ	4
	rse is to gain experience with design, implementation and testing of practical constructions with sensors for biomedical applications a		-
	students of FEE who will realize the practical final work.		
BAB34MNS		Z,ZK	4
	course are knowledge of new principles of operation of components and systems with micro-dimensions, microsystems, microsensc	,	1
	rosurgery, etc. The course points to new possibilities of implementation and application of integrated microcomponents working with va		
	intities using mainly MEMS technology. Physical principles of operation of microsystems and microactuators, classification, parameter		
	ation, calibration, system intelligence, applications of microactuators (electrostatic, piezoelectric, thermal, chemical and biochemical, op		
	n biomedicine, action elements in conjunction with sensors, whose operation is based on basic physical and biochemical principles, i		
	micromanipulation, microrobots. The course presents the principles of touch screens, energy microgenerators.		
BAB36PRGA	Programming in C	Z,ZK	6
BAB37APO	Applied Optics	Z,ZK	4
BAB37ZPR	Programming Essentials	Z,ZK	6
BBAP20	Bachelor thesis	Ζ,ΖΙ	20
BBPROJ4	Bachelor Project	Z	4
BEZB	Safety in Electrical Engineering for a bachelor's degree	Z a af it This introduu	0
	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation		-
contains tunda	amentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	con electrical equi	pineni.

BEZZ	Basic health and occupational safety regulations	Z	0
The guidelines wer	e worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech	echnical Universit	y in Prague,
which was provide	d by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of He	alth and Occupati	onal Safety
	regulations forms an integral and permanent part of gualification regulizements. This program is obligatory		

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2024-05-17, time 05:58.