Recomended pass through the study plan

Name of the pass: Specialization Electrical Engineering and Management - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Electrical Engineering, Power Engineering and Management - Electrical

Engineering and Management

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Electrical Engineering, Power Engineering and Management

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 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
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	Р
B0B01LAGA	Linear Algebra Ji í Velebil, Jakub Rondoš, Martin Bohata, Alena Gollová, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Р
B0B01MA1A	Mathematical Analysis 1 Martin Bohata, Josef Dvo ák, Veronika Sobotíková, Karel Pospíšil Veronika Sobotíková Veronika Sobotíková (Gar.)	Z,ZK	6	4P+2S	Z	Р
B0B99PRPA	Procedural Programming Stanislav Vítek Stanislav Vítek Stanislav Vítek (Gar.)	KZ	4	2P+2C	Z	Р
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	Р
B1B14ZEL1	Fundamentals of Electrotechnical Engineering Ivana Nová, Ji í Beranovský, Vít Hlinovský Ivana Nová	KZ	4	2P+2C	Z	Р
B1B16MME	Macro and Microekonomics Helena Fialová, Lubomír Lízal, Josef ernohous, Jan Jandera, Blanka Ku erková, Miroslav Vítek Helena Fialová Lubomír Lízal (Gar.)	Z,ZK	5	2P+2S	Z	PZ
2018_BEEMH	Humanitní p edm ty B0B16ET1,B0B16FIL, (see the list of groups below)	Min. cours. 1 Max. cours. 9	Min/Max 4/28			PV

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
B0B01DRN	Differencial Equations and Numerical Analysis Jakub Rondoš, Daniel Gromada, Josef Dvo ák, Petr Habala, Jakub Stan k Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Р
B1B02FY1	Physics 1 Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	8	4P+1L+2C	L	Р
B0B01MA2A	Mathematical Analysis 2 Veronika Sobotíková, Jaroslav Tišer, Martin K epela, Miroslav Korbelá Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	6	4P+2S	L	Р
B1B13PPS	Industrial computer systems Karal Künzel Karal Künzel Künzel (Gar.)	Z,ZK	4	2P+2L	L	Р

B1B15VYA	Computational Applications Jan Kyncl Jan Kyncl (Gar.)	KZ	4	2P+2C	L	Р
2018 BEEMVOL	W.P. I. C. and A.	Min. cours.	Min/Max			V
2010_BEEWIVOL	Volitelné p edm ty	0	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
B1B31EOS	Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Р
B1B17EMP	Electromagnetic Field Vít zslav Pankrác Vít zslav Pankrác (Gar.)	Z,ZK	5	2P+2C	Z	Р
B1B34EPS	Elektronics for Heavy-current engeneering Vladimír Janí ek, Adam Bou a, Jan Novák, Tomáš Teplý, Tomáš Martan Vladimír Janí ek Vladimír Janí ek (Gar.)	KZ	4	2P+2L	Z	Р
B1B02FY2	Physics 2 Petr Koní ek, Marek Brothánek, Vojt ch Jandák Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	7	3P+1L+2C	Z	Р
B0B01KANA	Complex Analysis Zden k Mihula, Hana Tur inová Zden k Mihula Zden k Mihula (Gar.)	Z,ZK	4	2P+2S	Z	Р
B1B13MVE1	Materials for Power Electrical Engineering Jan Zemen, Pavel Mach, Josef Sedlá ek, Karel Dušek, Ivana Beshajová Pelikánová Karel Dušek Pavel Mach (Gar.)	Z,ZK	4	2P+2L	Z	Р

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
B1B38EMA	Electrical Measurements Jakub Svatoš Jakub Svatoš Jakub Svatoš (Gar.)	KZ	5	2P+2L	L	Р
B1B15EN11	Power Engineering 1 Ladislav Musil, Ivo Doležel	Z,ZK	5	3P+2S	L	Р
B1B13TEP	Electrical engineering technological processes Pavel Mach, Karel Dušek, Petr Veselý, Jan Kuba, Radek Procházka Karel Dušek Pavel Mach (Gar.)	Z,ZK	4	3P+2L	L	Р
B1B14ZSP	Electric Machines and Apparatuses Basics Pavel Kobrle, Pavel Mindl Pavel Kobrle Pavel Kobrle (Gar.)	Z,ZK	5	3P+2L	L	Р
B1B01MEK	Mathematics for Economy Jakub Stan k, Miroslav Korbelá , Kate ina Helisová Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	3P+2S	L	PZ
B1B13VEZ	Manufacturing of Electronic Equipment David Bušek, Jan Urbánek David Bušek David Bušek (Gar.)	Z,ZK	6	2P+2L	L	PZ

Number of semester: 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
B1B15EN2	Power Engineering 2 Ivo Doležel, Zden k Müller	Z,ZK	5	2P+2L	Z	Р
B1BPROJ4	Bachelor project Josef ernohous, Miroslav Vítek, Jan Mikeš, Karel Künzel, Jan Kyncl, Ivana Beshajová Pelikánová, Zden k Müller, Jan Bauer, Stanislav Bou ek, Jan Bauer Jan Bauer (Gar.)	Z	4	4s	Z,L	Р
B1B13VVZ1	Manufacturing of Power Devices Radek Procházka, Ji í Hájek, Petr Gric Ji í Hájek Ji í Hájek (Gar.)	Z,ZK	4	2P+2L	Z	Р
B1B14ZPO	Fundametals of Electric Drives Pavel Kobrle Pavel Kobrle	Z,ZK	5	2P+2L	Z	Р
B1B14ZVE	Power Electronics Jan Bauer, Ji í Lettl Ji í Lettl (Gar.)	Z,ZK	4	2P+2L	Z	Р
B1B16UEE1	Economy of Power Industry Miroslav Vítek, Ji í Vaší ek, Jaroslav Knápek Miroslav Vítek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	Z	PZ
B1B16ZPU	Basics of Business Economics Josef ernohous, Blanka Ku erková, Old ich Starý Josef ernohous Old ich Starý (Gar.)	KZ	5	2P+2C	Z	PZ

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
BBAP15	Bachelor thesis	Z	15	15s	L,Z	Р
B1B16PPP	Business Law Jaroslav Knápek, Michal Briaský, Pavel Koš ál, Martin Dobiáš Martin Dobiáš Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	L	PZ
B1B16ZFM1	Basics of Financial Management Josef ernohous, Blanka Ku erková, Old ich Starý Old ich Starý Old ich Starý (Gar.)	Z,ZK	5	2P+2C	L	PZ
		Min. cours.				
2018 BEEMPV2	Povinn volitelné p edm ty programu	1	Min/Max			PV
ZUTO_DECIMEVZ	B1B16E0B,B1B13SSE1	Max. cours.	5/5			PV
		1				

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	d codes of members of this or below the list of courses)	Com	pletion	Credi	ts Scope	Semester	Role
2018_E	ВЕЕМН		umanitní p e		Min.	cours. 1 . cours. 9	Min/M	ax		PV
B0B16ET1	Ethic 1		B0B16FIL	Philosophy		B0B16FI	1	Philosophy 1	1	
B0B16HTE	History of t	echnology and econom	B0B16HT1	History of science and technolog		B0B16H	11	History 1		
B0B16MPS	Psychology	/	B0B16MPL	Psychology for managers		A003TV		Physical Educ	ation	
2018_BE	EEMPV2	Povinn vo	olitelné p ed	m ty programu		cours. 1 . cours. 1	Min/M 5/5	ax		PV
B1B16EOB	Lightning p	rotection economy	B1B13SSE1	Solar Systems and Electrochemica	i			•		
2018_BE	EMVOL	\	/olitelné p e	dm ty	Min.	cours.	Min/M 0/99			V

List of courses of this pass:

Code	Name of the course	Completion	Credits
A003TV	Physical Education	Z	2
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	al solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretic	al and practical poi	int of view.
B0B01KANA	Complex Analysis	Z,ZK	4
The course is an	introduction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform	are explained, inclu	iding their
	applications, particularly to solving differential and difference equations.		
B0B01LAGA	Linear Algebra	Z,ZK	7
The course covers	ntroductory topics of linear algebra. It begins with fundamental concepts related to vector spaces and linear transform (such as linear d	lependence and inc	dependence
of vectors, bases, o	coordinates of vectors, etc.). The next part of the course is devoted to matrix theory (determinants, inverse matrix, matrices of linear tr	ansformation, eige	nvalues and
eigenvectors). Appl	ications include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and the	e singular value de	composition
	of a matrix.		
B0B01MA1A	Mathematical Analysis 1	Z,ZK	6
	This is an introductory course to differential and integral calculus of functions of one real variable.		
B0B01MA2A	Mathematical Analysis 2	Z,ZK	6
The subject cover	rs 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.		

DODACETA	Ethio 1		
B0B16ET1	Ethic 1 is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situa	KZ	4
-	f the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the con		
B0B16FI1	Philosophy 1	KZ	4
	— — — — — — — — — — — — — — — — — — —		1
we dear with the	philosophical thoughts with recent problems of science, technology, economics and politics.	only and connec	don or old
B0B16FIL	Philosophy	ZK	2
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosop		
Wo dod! Will the	philosophical thoughts with recent problems of science, technology, economics and politics.	only and connec	uon or old
B0B16HI1	History 1	KZ	4
	,		+
B0B16HT1	History of science and technology 1	KZ	4
B0B16HTE	History of technology and economic	ZK	2
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
BOB99PRPA	Procedural Programming	KZ	4
B1B01MEK	Mathematics for Economy	Z,ZK	5
	duce the basic theory of probability and statistics, familiarise students with basic terms properties and methods used in working with ra		1
	with Markov chains, and show applications of these mathematical tools in economics and insurance.		-,
B1B02FY1	Physics 1	Z,ZK	8
	f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first		1
	e is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamics		
	and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they c	•	
-	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stude	_	
	e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is		
ins course in the	consecutive course Physics 2.	required for the	olday of
B1B02FY2	Physics 2	Z,ZK	7
	Filysics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of therr		1
-	res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented de	-	
-	ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section	•	
	will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such		
	nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electr		io robotio
31B13MVE1	Materials for Power Electrical Engineering	Z,ZK	4
	Inditerials for Fower Electrical Engineering It description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, superconductors, s	,	1
At ilist a physica	a describiion of pasic properties and pasic types of materials for electrical engineering is carried out. Types of conductors, superconduc		magneuc
matariala and aa			_
	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, techniques, the stress is put on relationships between properties, techniques, and the stress is put on relationships between properties, the stress is put on the stress is put of the stress is put on the stress is put of the stress is put on the stress is put of the stress is put of the stress is put on the stress is put of the str	chnology and th	e use. The
	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, techniques in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental condu	chnology and th	e use. The
tudent will meet,	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductors for thin and thick films and with selected nanomaterials and their applications.	chnology and thuctive joining, wi	e use. The
tudent will meet,	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductors for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems	chnology and th uctive joining, wi Z,ZK	e use. The
B1B13PPS e subject is focus	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductors for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with hard-	chnology and th uctive joining, wi Z,ZK ware for data ac	e use. The th materia 4 quisition a
B1B13PPS se subject is focus	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductors for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with hardsoftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their process.	chnology and thuctive joining, wizely by Z,ZK ware for data acsing in microco	e use. The th materia 4 quisition a computer are
B1B13PPS se subject is focus ata processing, s fundamental blo	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductors for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with hardsoftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their procesock of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial	chnology and th uctive joining, wi Z,ZK ware for data ac essing in microco I condition are p	e use. The th materia 4 quisition a computer ar resented.
B1B13PPS e subject is focus ata processing, s fundamental blo B1B13SSE1	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductions for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with hardsoftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their procedock of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial Solar Systems and Electrochemical Sources	chnology and the active joining, wind z,ZK ware for data accessing in microcol condition are p Z,ZK	e use. The th materia 4 quisition a proputer arresented.
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B1B13PPS e subject is focus ata processing, s fundamental blo B1B13SSE1 e course familiar nciple using the e milarly, students	emiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, ted in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductions for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems sed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with hard software tools and application examples. There are presented elementary digital circuits, the representation of numbers and their procedock of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial Solar Systems and Electrochemical Sources rizes students with the basic principles of electrochemical sources and photovoltaic cells and systems. At the beginning, the emphasis is equivalent circuits and mathematical description. In the next section, the basic types of electrochemical sources and their technical parameters.	chnology and the active joining, wind the active joining, wind Z,ZK ware for data accessing in microcold condition are polyz,ZK so on understand eters are explored lar-thermal. At the all sources.	e use. The th material 4 quisition a supporter autresented. 5 ing the band separate
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B1B15EN2	Power Engineering 2	Z,ZK	5
B1B15VYA	Computational Applications	KZ	4
B1B16EOB	Lightning protection economy	Z,ZK	5
The subject provide	es an introduction to lightning discharge physics and deals with protections against their effects. Students are familiarized with the des		plementation
of protections. Risk	management methods for lightning damage are discussed. The course includes an excursion to the production of lightning current	arresters and a real	I study of the
	effects of lightning currents in the laboratory supported by numerical simulations.		
B1B16MME	Macro and Microekonomics	Z,ZK	5
Basic economic ter	ms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, pr	oducer's behavior, c	ost, revenue
profit, market faile	ure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary	policy, labor marke	t, business
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.		
B1B16PPP	Business Law	Z,ZK	5
B1B16UEE1	Economy of Power Industry	Z,ZK	5
B1B16ZFM1	Basics of Financial Management	Z,ZK	5
B1B16ZPU	Basics of Business Economics	KZ	5
B1B17EMP	Electromagnetic Field	Z,ZK	5
	This course gets its students acquinted with principles and applied electromagnetic field theory basics.	,	ļ
B1B31EOS	Electric circuits	7 71/	_
DIDJIEUS	Liectific circuits	Z,ZK	6
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The subject descr	ribes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from sch nowledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behav	ools of different cate ior of basic ideal circ	egories and cuit elements
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which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. This program is obligatory.

For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2025-06-06, time 02:45.