Recomended pass through the study plan

Name of the pass: Branch 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 seme	ster: 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
B0B01LAG	Linear Algebra Ji í Velebil, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	8	4P+2S	z	Ρ
B0B16MME	Macro and Microekonomics	Z,ZK	4	2P+2S	Z	Р
B0B01MA1	Mathematical Analysis 1 Josef Dvo ák, Martin K epela, Josef Tkadlec, Veronika Sobotíková Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z,L	Ρ
B0B99PRP	Procedural Programming	Z,ZK	6	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	Ρ
B1B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	3	2P+2C	Z	Р
2015_BEEMH	Humanitní p edm ty B0B16ET1,B0B16FIL, (see the list of groups below)	Min. cours. 1 Max. cours. 9	Min/Max 4/28			Ρ

Number of seme	ster: 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
B1B31EOS	Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Ρ
B1B02FY1	Physics 1 Petr Koní ek Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	8	4P+1L+2C	L	Ρ
B0B01MA2	Mathematical Analysis 2 Karel Pospíšil, Miroslav Korbelá, Petr Hájek, Martin Bohata, Jaroslav Tišer, Paola Vivi, Hana Tur inová Petr Hájek Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L,Z	Ρ
B1B15VYA	Computational Applications Jan Kyncl Jan Kyncl (Gar.)	KZ	4	2P+2C	L	Р

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
B1B17EMP	Electromagnetic Field Vít zslav Pankrác Vít zslav Pankrác Vít zslav Pankrác (Gar.)	Z,ZK	5	2P+2C	Z	Ρ
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	Ρ
B1B02FY2	Physics 2 Petr Koní ek Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	7	3P+1L+2C	Z	Ρ
B0B01KAN	Complex Analysis Martin Bohata, Hana Tur inová, Zden k Mihula Martin Bohata Martin Bohata (Gar.)	Z,ZK	5	2P+2S	Z	Ρ
B1B13MVE	Materials for Power Electrical Engineering	Z,ZK	5	2P+2L	Z	Р
B1B14ZVE	Power Electronics Ji í Lettl, Jan Bauer Ji í Lettl Ji í Lettl (Gar.)	Z,ZK	4	2P+2L	Z	Р

Number of se						
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 (Gar.)	КZ	5	2P+2L	L	Р
B1B15EN1	Power Engineering 1	Z,ZK	6	3P+2S	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	Р
B1B13VST	Technology in Electrical Engineering	Z,ZK	5	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
B0B16ZPU	Basics of Business Economics	KZ	4	2P+2S	L	PO

Number of seme	ester: 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	Ρ
B1BPROJ4	Bachelor project Jan Mikeš, Jan Kyncl, Jan Bauer, Zden k Müller, Ivana Beshajová Pelikánová, Karel Künzel, Vít Klein, Stanislav Bou ek, Ji í Vaší ek, Jan Bauer Jan Bauer (Gar.)	Z	4	4s	Z,L	Ρ
B1B13VVZ	Manufacturing of Power Devices	Z,ZK	5	2P+2L	Z	Р
B1B14ZPO	Fundametals of Electric Drives Pavel Kobrle Pavel Kobrle	Z,ZK	5	2P+2L	Z	Р
B1B16UEE	Economy of Power Industry	KZ	4	2P+2S	Z	PO
B1B16ZFM	Basics of Financial Management	Z,ZK	4	2P+2S	Z	PO
2015_BEEMVOL	Volitelné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of seme	ster: 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
B1B13PPS	Industrial computer systems Karel Künzel Karel Künzel (Gar.)	Z,ZK	4	2P+2L	L	Р
B0B16PPP	Business Law	KZ	4	2P+2S	L	PO
	Maltaha é na adua da	Min. cours.	Min/Max			N/
2015_BEEMVOL	Volitelné 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 o group (for specificati	f courses an on see here	d codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
2015_B	EEMH	ŀ	lumanitní p	edm tv		cours. 1 . cours. 9	Min/Ma	-		Ρ
B0B16ET1	Ethic 1		B0B16FIL	Philosophy		B0B16FI	1	Philosophy 1		
B0B16HTE	History of	technology and econom	B0B16HT1	History of science and technolog		B0B16H	1	History 1		
B0B16MPS	Psycholog	у	B0B16MPL	Psychology for managers		A003TV		Physical Educ	ation	
2015_BE	EMVOL		Volitelné p e	dm ty	Min.	cours. 0	Min/Ma 0/999			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
	students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical r		
stability, numerical sol	lutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theorem	etical and practical po	int of view.
B0B01KAN	Complex Analysis	Z,ZK	5
B0B01LAG	Linear Algebra	Z,ZK	8
	nitial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and		
etc). The calculus of ma	atrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is cove		ons include
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) an		
B0B01MA1	Mathematical Analysis 1	Z,ZK	7
I	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variab		
B0B01MA2	Mathematical Analysis 2	Z,ZK	7
The subject covers an	introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrations between curve and surface integrations between curve and surface integrations and basic relations between curve and surface integrations are also	rals. Other part contair	ns function
	series and power series with application to Taylor and Fourier series.		_
B0B01STP	Statistics and Probability	Z,ZK	5
	Ethic 1	KZ	4
B0B16ET1		1	
Aim of this subject is to	provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various		
Aim of this subject is to parts of the	subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the	ne communal answers.	
Aim of this subject is to parts of the B0B16FI1	subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the Philosophy 1	ne communal answers.	4
Aim of this subject is to parts of the B0B16FI1	subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the Philosophy 1 st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of pl	ne communal answers.	4
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Aim of this subject is to parts of the B0B16FI1 We deal with the mo B0B16FIL	subject are discussions in which students can react to lectures but also to actual questions coming with news and look for th Philosophy 1 st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophical thoughts with recent problems of science, technology, economics and politics. Philosophy st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy	e communal answers. KZ nilosophy and connecti	4 ion of old 2
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studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained

in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the

	consecutive course Physics 2.		
B1B02FY2	Physics 2	Z,ZK	7
The course Physic	s 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of the	rmodynamics. Follo	owing topic
- the theory of wave	es - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented of	description of the w	aves has a
	er in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section		
	ill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of suc		s robotics,
	puter vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec		
B1B13MVE	Materials for Power Electrical Engineering	Z,ZK	5
	description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondunt miconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, t		-
	n higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental cond	0,7	
,	for thin and thick films and with selected nanomaterials and their applications.	, <u>,</u>	
B1B13PPS	Industrial computer systems	Z,ZK	4
	ed on basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with har		uisition and
data processing, s	oftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their proc	essing in microcon	nputer and
fundamental blo	ck of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri	al condition are pre	esented.
B1B13VST	Technology in Electrical Engineering	Z,ZK	5
	s in electrical engineering will be characterized, their arrangement and basic technologies for mechanical joints and plastic parts. Mai	-	
and impregnation p	rocesses will also been presented. Next part of a course will be focused on basic technologies for semiconductors including power in	tegration. Beam te	chnologies,
D4D4010/7	technologies using plasma, packaging and basic assembly technologies will also been presented.	7 71/	
B1B13VVZ	Manufacturing of Power Devices	Z,ZK	5
	ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main part I rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s		
	rotating machines, namely their magnetic circuits and windings. Second han of the subject is declated to manufacturing of power s		
B1B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	3
	necessary knowledge of the technical documentation, technical text and its presentation. The second half of the semester isfocused or		-
	of basics electrotechnics so that knowledge of students are increased to the level needed in the next semesters.		- p
B1B14ZPO	Fundametals of Electric Drives	Z,ZK	5
	es the basic terms and knowledge in electric drives and in the issues related to this discipline as well. The lectures are focused on the		
control, continuous	control and also discrete control, and on the characteristics of used controllers in practice. Further, the basic control structures of driv	ves with DC and A0	C machines
	are explained.		
B1B14ZSP	Electric Machines and Apparatuses Basics	Z,ZK	5
	s the principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functions	and properties of r	-
-	ic machines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavi	-	
B1B14ZVE	Power Electronics	Z,ZK	4
B1B14ZVE	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd	Z,ZK	4
B1B14ZVE The course focus	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing.	Z,ZK luced to the basic p	4 principles,
B1B14ZVE The course focus B1B15EN1	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1	Z,ZK luced to the basic p Z,ZK	4 principles, 6
B1B14ZVE The course focus B1B15EN1 B1B15EN2	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2	Z,ZK luced to the basic p Z,ZK Z,ZK	4 principles, 6 5
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications	Z,ZK duced to the basic p Z,ZK Z,ZK KZ	4 principles, 6 5 4
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry	Z,ZK duced to the basic p Z,ZK Z,ZK KZ KZ	4 principles, 6 5 4 4
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management	Z,ZK luced to the basic p Z,ZK Z,ZK KZ KZ Z,ZK	4 principles, 6 5 4 4 4 4
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electromagnetic Field	Z,ZK duced to the basic p Z,ZK Z,ZK KZ KZ	4 principles, 6 5 4 4
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B17EMP	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electromagnetic Field This course gets its students acquinted with principles and applied electromagnetic field theory basics.	Z,ZK luced to the basic p Z,ZK Z,ZK KZ KZ Z,ZK Z,ZK	4 principles, 6 5 4 4 4 4 5
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B16ZFM B1B31EOS	Power Electronics es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electromagnetic Field This course gets its students acquinted with principles and applied electromagnetic field theory basics. Electric circuits	Z,ZK Juced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK	4 principles, 6 5 4 4 4 4 5 6
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B16ZFM B1B17EMP B1B31EOS The subject descri	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introded properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electromagnetic Field This course gets its students acquinted with principles and applied electromagnetic field theory basics. Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK bls of different cates	4 principles, 6 5 4 4 4 4 5 6 gories and
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B17EMP B1B31EOS The subject descriform the basis of kn	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoor owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK Js of different categor of basic ideal circu	4 principles, 6 5 4 4 4 5 6 gories and uit elements
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B17EMP B1B31EOS The subject descriform the basis of kn	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoor owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK Js of different categor of basic ideal circu	4 principles, 6 5 4 4 4 5 6 gories and uit elements
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B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B16ZFM B1B31EOS The subject descr form the basis of kn in DC circuits and ir B1B34EPS	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoor owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK bls of different categor of basic ideal circu- be used for critical a	4 principles, 6 5 4 4 4 4 5 6 gories and uit elements assessment 4
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B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B16ZFM B1B31EOS The subject descriform the basis of kn in DC circuits and ir B1B34EPS Knowledge of curr	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introder properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electromagnetic Field This course gets its students acquinted with principles and applied electromagnetic field theory basics. Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoor owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also to of the results of the analysis and simulation of electrical circuits by means of software tools. Elektronics for Heavy-current engeneering ent basic passive and active electronic components. Structure, physical and circuit properties of components. Component behavior of the source components. Structure, physical and circuit properties of components. Component behavior of the source components. Structure, physical and circuit properties of components. Component behavior of the source components. Structure, physical and circuit properties of components. Component behavior o	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK ols of different cate of basic ideal circu- be used for critical a KZ when working with	4 principles, 6 5 4 4 4 5 6 gories and uit elements assessment 4 both small
B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B16ZFM B1B31EOS The subject descriform the basis of kn in DC circuits and ir B1B34EPS Knowledge of curr	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introded properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electric circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoor owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also to of the results of the analysis and simulation of electrical circuits by means of software tools. Electronics for Heavy-current engeneering ent basic passive and active electronic components. Structure, physical and circuit properties of components. Component behavior v digital and optical signals. More complex circuit systems and communication technologies. Measuring the most important application	Z,ZK luced to the basic p Z,ZK Z,ZK KZ Z,ZK Z,ZK Z,ZK ols of different cate of basic ideal circu- be used for critical a KZ when working with	4 principles, 6 5 4 4 4 5 6 gories and uit elements assessment 4 both small
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B1B14ZVE The course focus B1B15EN1 B1B15EN2 B1B15VYA B1B16UEE B1B16ZFM B1B31EOS The subject descriform the basis of kn in DC circuits and ir B1B34EPS Knowledge of curri and large analog, B1B38EMA The subject is foc frequency, resistant B1BPROJ4 BBAP15 BEZB	Power Electronics as on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing. Power Engineering 1 Power Engineering 2 Computational Applications Economy of Power Industry Basics of Financial Management Electroic circuits bes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from schoc owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also to digital and optical signals. More complex circuit systems and comunication technologies. Measuring the most important application devices. Electrical dircuit numeration. Based on the principle of the methods of electrical quantities measurem tex, capacitance and inductance) a structure and properties of measurements used to fundamentals of measurement and instrumentation. Based on the principle of estimation. Fundamentals of measurements close the course. Bachelor project Bachelor project Bachelor project	Z,ZK duced to the basic p Z,ZK Z,ZK KZ KZ Z,ZK Z,ZK Z,ZK Z,ZK Dis of different categor of basic ideal circu- bas of modern semic KZ when working with has of modern semic KZ undern semic KZ application and a Z Z Z Z	4 principles, 6 5 4 4 4 5 6 gories and uit elements assessment 4 both small conductor 5 nt, power, an accuracy 4 15 0
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