Study plan

Name of study plan: Electrical Engineering, Power Engineering and Management

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Branch of study guaranteed by the department: Common courses Garantor of the study branch: Program of study: Electrical Engineering, Power Engineering and Management Type of study: Bachelor full-time Required credits: 177 Elective courses credits: 3 Sum of credits in the plan: 180 Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 133 The role of the block: P

Code of the group: 2018_BEEMBAP Name of the group: Bachelor Project Requirement credits in the group: In this group you have to gain 15 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 15 Note on the group:

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

Ζ

15

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMBAP Name=Bachelor Project
BBAP15 Bachelor thesis

Code of the group: 2018_BEEMBBE

Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 0

Note on the group:

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
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

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMBBE Name=Safety of the bachelor's studies

BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0		
The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course					
contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.					
BEZZ	Basic Health and Occupational Safety Regulations	Z	0		
The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague,					
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.					

Code of the group: 2018_BEEMP

Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 118 credits Requirement courses in the group: In this group you have to complete 24 courses Credits in the group: 118 Note on the group:

Note on the gro		1	1	1	1 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)	Completion	Credits	Scope	Semester	Role
B0B01DRN	Tutors, authors and guarantors (gar.) Differencial Equations and Numerical Analysis Petr Habala, Jakub Rondoš, Jakub Stan k, Daniel Gromada, Josef Dvo ák Petr Habala Petr Habala Petr Habala Petr Habala Petr Habala	Z,ZK	4	2P+2C	L	Р
B1B38EMA	Electrical Measurements Jakub Svatoš Jakub Svatoš (Gar.)	KZ	5	2P+2L	L	Р
B1B31EOS	Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Ρ
B1B15EN11	Power Engineering 1 Ladislav Musil, Ivo Doležel	Z,ZK	5	3P+2S	L	Ρ
B1B15EN2	Power Engineering 2 Ivo Doležel, Zden k Müller	Z,ZK	5	2P+2L	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.)	КZ	4	2P+2L	Z	Ρ
B1B02FY1	Physics 1 Petr Koní ek Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	8	4P+1L+2C	L	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	Ρ
B0B01KANA	Complex Analysis Zden k Mihula, Hana Tur inová Zden k Mihula Zden k Mihula (Gar.)	Z,ZK	4	2P+2S	Z	Р
B0B01LAGA	Linear Algebra Jakub Rondoš, Daniel Gromada, Josef Dvo ák, Ji í Velebil, Martin Bohata, Alena Gollová, Natalie Žukovec, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
B0B01MA1A	Mathematical Analysis 1 Josef Dvo ák, Martin Bohata, Veronika Sobotíková, Karel Pospíšil Veronika Sobotíková Veronika Sobotíková (Gar.)	Z,ZK	6	4P+2S	Z	Ρ
B0B01MA2A	Mathematical Analysis 2 Veronika Sobotíková, Jaroslav Tišer, Martin Kepela, Miroslav Korbelá Jaroslav Tišer Jaroslav Tišer (Gar.)	Z,ZK	6	4P+2S	L	Ρ
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	Ρ
B0B99PRPA	Procedural Programming Stanislav Vitek Stanislav Vítek (Gar.)	KZ	4	2P+2C	Z	Р
B1BPROJ4	Bachelor project Zden k Müller, Ivana Beshajová Pelikánová, Jan Mikeš, Jan Kyncl, Jan Bauer, Karel Künzel, Stanislav Bou ek, Ji í Vaší ek, Miroslav Vítek, Jan Bauer Jan Bauer (Gar.)	Z	4	4s	Z,L	Ρ
B1B13PPS	Industrial computer systems Karel Künzel Karel Künzel (Gar.)	Z,ZK	4	2P+2L	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	Ρ
B1B15VYA	Computational Applications Jan Kyncl Jan Kyncl (Gar.)	KZ	4	2P+2C	L	Ρ
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	Ρ
B1B14ZPO	Fundametals of Electric Drives Pavel Kobrle Pavel Kobrle	Z,ZK	5	2P+2L	Z	Ρ
B1B14ZSP	Electric Machines and Apparatuses Basics Pavel Kobrle, Pavel Mindl Pavel Kobrle Pavel Kobrle (Gar.)	Z,ZK	5	3P+2L	L	Ρ
B1B14ZEL1	Fundamentals of Electrotechnical Engineering Ivana Nová, Vít Hlinovský, Ji í Beranovský Ivana Nová	KZ	4	2P+2C	Z	Р
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Characteristics of the courses of this group of Study Plan: Code=2018_BEEMP Name=Compulsory subjects of the programme

Power Electronics

Jan Bauer, Ji í Lettl Ji í Lettl Ji í Lettl (Gar.)

B1B14ZVE

 B0B01DRN
 Differencial Equations and Numerical Analysis
 Z,ZK
 4

 This course introduces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical methods (errors in calculations and stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view.
 B1B38EMA
 Electrical Measurements
 KZ
 5

 The subject is focused to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurement (voltage, current, power, frequency, resistance, carbon inductance) a structure and properties of measuring instruments are explained including principles of their correct application and an accuracy estimation. Fundamentals of magnetic measurements close the course.
 S

Z,ZK

4

2P+2L

Ζ

Р

-	Electric circuits		0				
-	1	Z,ZK	6				
I IOITIT LITE DASIS OF KHOWIE	Indamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from sch dge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the beha		-				
in DC circuits and in sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also be used for critical assessment							
	lysis and simulation of electrical circuits by means of software tools.						
B1B15EN11	Power Engineering 1	Z,ZK	5				
B1B15EN2	Power Engineering 2	Z,ZK	5				
B1B17EMP	Electromagnetic Field	Z,ZK	5				
	tents acquinted with principles and applied electromagnetic field theory basics.						
B1B34EPS	Elektronics for Heavy-current engeneering	KZ	4				
s a	asic passive and active electronic components. Structure, physical and circuit properties of components. Component behavio and optical signals. More complex circuit systems and communication technologies. Measuring the most important application	•					
devices.		ons of modern se	miconductor				
B1B02FY1	Physics 1	Z,ZK	8				
	sics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The		-				
and the second one is the	e electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dyna	amics of the mass	particle, system				
	gid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which the	-	-				
	echanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The		-				
consecutive course Phy	ly of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this cou sics 2.	ise is required for	the study of the				
B1B02FY2	Physics 2	Z,ZK	7				
	closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of						
- the theory of waves -	vill give to the students basic insight into the properties of waves and will help to the students to understand that the presente	ed description of t	he waves has a				
	bite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following sect						
	plete the student?s general education in physics. The knowledge gained in this course will help to the students in study of su		as robotics,				
B0B01KANA	ring technique and will allow them to understand the principles of novel technologies and functioning of new electronic device Complex Analysis	Z,ZK	4				
	 iction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform	,					
	to solving differential and difference equations.						
B0B01LAGA	Linear Algebra	Z,ZK	7				
The course covers intro	ductory topics of linear algebra. It begins with fundamental concepts related to vector spaces and linear transform (such as linear	ar dependence an	d independence				
	inates of vectors, etc.). The next part of the course is devoted to matrix theory (determinants, inverse matrix, matrices of linea		-				
	ons include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and	I the singular value	e decomposition				
of a matrix. B0B01MA1A	Mathematical Analysis 1	Z,ZK	6				
	Mathematical Analysis 1 ourse to differential and integral calculus of functions of one real variable.	Ζ,ΖΝ	0				
B0B01MA2A	Mathematical Analysis 2	Z,ZK	6				
	troduction to the differential and integral calculus in several variables and basic relations between curve and surface integral	,	-				
series and power series	with application to Taylor and Fourier series.						
B1B13MVE1	Materials for Power Electrical Engineering	Z,ZK	4				
	ption of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercond						
	uctors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties,						
-	her detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conduction with selected nanomaterials and their applications.	onductive joining,	with materials				
B0B99PRPA	Procedural Programming	1/7					
Bebeering		<u> </u>	4				
B1BPRO.I4	Bachelor project	KZ Z	4				
B1BPROJ4 B1B13PPS	Bachelor project	Z	4				
B1B13PPS	Bachelor project Industrial computer systems n basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with	Z Z,ZK	4 4				
B1B13PPS The subject is focused of	Industrial computer systems	Z Z,ZK hardware for data	4 4 a acquisition and				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with	Z Z,ZK hardware for data rocessing in micro ial condition are p	4 a acquisition and bcomputer and bresented.				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their picroprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri Electrical engineering technological processes	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK	4 4 a acquisition and performation and presented. 4				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pic croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industr Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer	Z Z,ZK hardware for data rocessing in micro rial condition are p Z,ZK ntals of winding, d	4 4 a acquisition and prosented. 4 rying and				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their picroprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri Electrical engineering technological processes	Z Z,ZK hardware for data rocessing in micro rial condition are p Z,ZK ntals of winding, d	4 4 a acquisition and prosented. 4 rying and				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented.	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their processor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industr Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass	Z Z,ZK hardware for data rocessing in micro rial condition are p Z,ZK ntals of winding, d sembly technologi	4 4 a acquisition and prosented. 4 rying and es are also				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pro- croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer . The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass Computational Applications	Z Z,ZK hardware for data rocessing in micro rial condition are p Z,ZK ntals of winding, d sembly technologi KZ	4 4 a acquisition and prosented. 4 rying and				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA B1B13VVZ1	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their processor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industr Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK ntals of winding, d sembly technologi KZ Z,ZK	4 4 a acquisition and occomputer and oresented. 4 rying and es are also 4 4 4				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA B1B13VVZ1 The topic of the subject	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pic croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer . The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass Computational Applications Manufacturing of Power Devices	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK ntals of winding, d sembly technologi KZ Z,ZK in part of the subj	4 4 a acquisition and bornesented. 4 rying and es are also 4 4 ect is devoted to				
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B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA B1B13VVZ1 The topic of the subject transformers and rotatin converters including dia B1B14ZPO The course provides the control, continuous con are explained. B1B14ZSP	Industrial computer systems Industrial computer control systems used in electrotechnic engineering and energetics. Students works with Industrial computer examples. There are presented elementary digital circuits, the representation of numbers and their precorporcessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial Industrial engineering technological processes Industrial engineering technologies and IC packaging will be characterized. There will also be discussed fundamer Industrial engineering technologies and IC packaging will be characterized. There will also be discussed fundamer Industrial engineering of producing single-crystal Si. Technology using plasma technology, packaging, and basic ass Industrial engineering of power Devices Is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Mai g machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power signostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning of man Fundametals of Electric Drives Is basic terms and knowledge in electric drives and in the issues related to this discipline as well. The lectures are focused on Industrial engineering and in the issues related to this discipline as well. The lectures are focused on Industrial engineering	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK ntals of winding, d sembly technologi KZ Z,ZK in part of the subj semiconductive d sufacturing. Z,ZK the basic of elect drives with DC ar Z,ZK	4 4 a acquisition and occomputer and oresented. 4 rying and es are also 4 4 ect is devoted to evices and 5 ric drives logic nd AC machines 5				
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B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA B1B13VVZ1 The topic of the subject transformers and rotatin converters including dia B1B14ZPO The course provides the control, continuous con are explained. B1B14ZSP The course explains the non-rotating electric ma B1B14ZEL1 The course extends need focused on explaining a B1B14ZVE	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pr croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industr Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer . The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass Computational Applications Manufacturing of Power Devices is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Mai g machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power approximation of the characteristics of used controllers in practice. Further, the basic control structures of Electric Machines and Apparatuses Basics principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic funding the behavior of electrical machines are discussed basic devices for protection and switching, including beh Fundamentals of Electrotechnical Engineering essary knowledge of creating technical documentation, including oral and written presentation of technical information. The s and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed Power Electronics	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK intals of winding, d sembly technologi KZ Z,ZK in part of the subj semiconductive d nufacturing. Z,ZK the basic of elect drives with DC ar Z,ZK ons and propertie avioral and switch KZ second half of the in the following se Z,ZK	4 4 a acquisition and bresented. 4 rying and es are also 4 4 ect is devoted to evices and 5 ric drives logic nd AC machines 5 s of rotating and hing problems. 4 semester is emesters. 4				
B1B13PPS The subject is focused of data processing, softwa fundamental block of m B1B13TEP Technologies used in el impregnation processes presented. B1B15VYA B1B13VVZ1 The topic of the subject transformers and rotatin converters including dia B1B14ZPO The course provides the control, continuous con are explained. B1B14ZSP The course explains the non-rotating electric ma B1B14ZEL1 The course extends need focused on explaining a B1B14ZVE The course focuses on	Industrial computer systems In basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their pr croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industr Electrical engineering technological processes ectronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamer . The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic ass Computational Applications Manufacturing of Power Devices is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Mai g machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power gnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning of mam Fundametals of Electric Drives b basic terms and knowledge in electric drives and in the issues related to this discipline as well. The lectures are focused on rol and also discrete control, and on the characteristics of used controllers in practice. Further, the basic control structures of Electric Machines and Apparatuses Basics principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functio chines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavior sesary knowledge of creating technical documentation, including oral and written presentation of technical information. The s and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed	Z Z,ZK hardware for data rocessing in micro ial condition are p Z,ZK intals of winding, d sembly technologi KZ Z,ZK in part of the subj semiconductive d nufacturing. Z,ZK the basic of elect drives with DC ar Z,ZK ons and propertie avioral and switch KZ second half of the in the following se Z,ZK	4 4 a acquisition and bresented. 4 rying and es are also 4 4 ect is devoted to evices and 5 ric drives logic nd AC machines 5 s of rotating and hing problems. 4 semester is emesters. 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
B0B04B1K	English language B1 - classified assessment Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)		0	0C	Z,L	Ρ
B0B04B2Z	English language B2 - exam Markéta Havlí ková, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Ρ

Characteristics of the courses of this group of Study Plan: Code=2015_BZAJ Name=Exam from the english language

B0B04B1K	English language B1 - classified assessment	KZ	0			
verifying of the student	s skills of B1 level					
B0B04B2Z	English language B2 - exam	Z,ZK	0			
I) The B2 English Exam	1) The B2 English Exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Study and Examination Rules and					
Regulations for Students	s at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully	complete the stud	ly programme. In			
addition, this requires th	e passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common E	European Framew	ork of Reference			
for Languages (CEFR),	an international standard for describing language ability, the definition of an English language learner who has achieved the	B2 (Upper-Intern	nediate) level is			
	d the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specia		•			
	of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects					
and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an approved international exam						
	within the past five years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are then exempt from both the Written					
Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/						

Name of the block: Povinné p edm ty zam ení Minimal number of credits of the block: 30 The role of the block: PZ

Code of the group: 2018_BEEMPS1

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 30

Note on the group:

Specializace - aplikovaná elektrotechnika

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
B1B15EN3	Power Engineering 3 Jan Kyncl, Petr Žák, Petr Žák Jan Kyncl (Gar.)	KZ	4	2P+2L	Z	PZ
B1B16MME	Macro and Microekonomics Miroslav Vítek, Josef ernohous, Helena Fialová, Lubomír Lízal, Jan Jandera, Blanka Ku erková Helena Fialová Lubomír Lízal (Gar.)	Z,ZK	5	2P+2S	Z	PZ
B1B14MIS	Microprocessors for Power Systems Jan Bauer Jan Bauer Ji í Zd nek (Gar.)	Z,ZK	5	2P+2L	Z	PZ
B1B13SSE1	Solar Systems and Electrochemical Sources Pavel Hrzina, Vít zslav Benda Pavel Hrzina Vít zslav Benda (Gar.)	Z,ZK	5	2P+2L	L	PZ
B0B01STP	Statistics and Probability Jakub Stan k, Miroslav Korbelá, Kate ina Helisová, Bogdan Radovi Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1B13VES	Manufacturing of Electrical Components Václav Papež Václav Papež Václav Papež (Gar.)	Z,ZK	6	2P+2L	L	PZ

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMPS1 Name=Compulsory subjects of the branch

B1B15EN3	Power Engineering 3	KZ	4		
B1B16MME	Macro and Microekonomics	Z,ZK	5		
Basic economic terms, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, producer's behavior, cost, revenue,					
profit, market failure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary policy, labor market, business					
cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.					

B1B14MIS Microprocessors for Power Systems	Z,ZK	5				
Power electronics control computer structure, digital signal processor and ALU added features for fast real time calculations. Interrupt system and DMA system, analog signal						
measurement, fast impulse signal measurement, fast impulse generation support, inter-computer communication, system and power management,	programming lanç	juages for power				
systems software development, programming techniques, software development tools (simulators, emulators, monitors), input signal conditioning ci	rcuitry, conversion	from analog				
signals to digital processing, time sampling, amplitude quatization, power electronics control block design and implementation, difference equations	and control algori	thms, fixed and				
floating point calculations, debugging methods, program parametrization, guides and rules for implementation and application of power system confi	rol computers. Re	al time operating				
system, scheduler, dispatcher and another features and guides for application						
B1B13SSE1 Solar Systems and Electrochemical Sources	Z,ZK	5				
The course familiarizes students with the basic principles of electrochemical sources and photovoltaic cells and systems. At the beginning, the empl	asis is on underst	anding the basic				
principle using the equivalent circuits and mathematical description. In the next section, the basic types of electrochemical sources and their technical principle using the equivalent circuits and mathematical description.	arameters are exp	lored separately.				
Similarly, students become familiar with the technology of photovoltaic cells and modules. Another chapter is devoted to the basic applications such	as solar-thermal.	At the end of the				
course, students become familiar with economical and technological implications of the combination of solar systems and electrochemical sources.						
B0B01STP Statistics and Probability	Z,ZK	5				
The aim of the course is to introduce students to the fundamentals of probability theory and mathematical statistics, their computational methods as	well as application	ns of these				
mathematical tools to practical examples.						
B1B13VES Manufacturing of Electrical Components	Z,ZK	6				
Technology of electric components in general. Basic technology in use. Type of components: resistors, potentiometers, capacitors with foil dielectric. Ceramic and electrolytic capacitors.						
Electromechanical devices . Semiconductors, fabrication of vertical and horizontal structures. Packaging.						

Name of the block: Compulsory elective courses Minimal number of credits of the block: 14 The role of the block: PV

Code of the group: 2018_BEEMH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain at least 4 credits (at most 28) Requirement courses in the group: In this group you have to complete at least 1 course (at most 9) Credits in the group: 4

Note on the group:

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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
B0B16ET1	Ethic 1 Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	PV
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	PV
B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	PV
B0B16HTE	History of technology and economic Jan Mikeš, Marcela Efmertová Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	PV
B0B16HT1	History of science and technology 1 Jan Mikeš, Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	PV
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová(Gar.)	KZ	4	2P+2S	Z	PV
B0B16MPS	Psychology Jan Fiala Jan Fiala Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	PV
B0B16MPL	Psychology for managers Jan Fiala Jan Fiala Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	PV
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	PV

Characteristics of the courses of this group of Study Plan: Code=2018_BEEMH Name=Humanities subjects

B0B16ET1	Ethic 1	KZ	4				
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 situations of human life. Essential							
parts of the subject are	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 communal answers.						
B0B16FIL	Philosophy	ZK	2				
We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old							
philosophical thoughts	with recent problems of science, technology, economics and politics.						
B0B16FI1	Philosophy 1	KZ	4				
	mportant persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy.	sophy and connec	ction of old				
philosophical thoughts	with recent problems of science, technology, economics and politics.						
B0B16HTE	History of technology and economic	ZK	2				
B0B16HT1	History of science and technology 1	KZ	4				
B0B16HI1	History 1	KZ	4				
B0B16MPS	Psychology	Z,ZK	4				
B0B16MPL	Psychology for managers	ZK	2				
A003TV	Physical Education	Z	2				

Code of the group: 2018_BEEMPV1

Name of the group: Compulsory subjects of the programm

Requirement credits in the group: In this group you have to gain 10 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 10

Note on the group	: Specializace - Aplikova	ná elektrote	chnika			
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
B1B15EPR1	Projects in Power Engineering Jan Koller, Pavel Zezula Jan Koller (Gar.)	KZ	5	2P+2S	L	PV
B1B14TME1	Engineering mechanics Petr Ko árník Petr Ko árník Petr Ko árník (Gar.)	Z,ZK	5	2P+2C	L	PV
B1B13TPR	Technological Project Planning Karel Dušek, Petr Gric, Martin Molhanec Karel Dušek Martin Molhanec (Gar.)	Z,ZK	5	2P+2S	L	PV
B1B16UEE1	Economy of Power Industry Ji í Vaší ek, Miroslav Vítek, Jaroslav Knápek Miroslav Vítek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	z	PV

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Characteristics of the courses of this group of Study Plan: Code=2018_BEEMPV1 Name=Compulsory subjects of the programm

B1B15EPR1	Projects in Power Engineering	KZ	5
B1B14TME1	Engineering mechanics	Z,ZK	5
This course provides kn	owledge of applied mechanics for the industry practice. Analysis of constructional elements and their dimensioning. Kinematic	s of simple mecha	anisms. Dynamic
behaviour of mechanica	I systems, mechanic vibrations. Thermodynamics of real gases and vapours, their processes an cycles, basic comparative cycle	es of heat machine	s. Fundamentals
of hydrodynamics, trans	sport losses in hydraulic systems.		
B1B13TPR	Technological Project Planning	Z,ZK	5
Principles of Project Ma	nagement. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational projec	t structure. Strateg	ic management:
SWOT, PEST and 5F. P	roject logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and	l norms. Human re	esources
management. Funding.			
B1B16UEE1	Economy of Power Industry	Z,ZK	5
		•	

Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

Code of the group: 2015_BJKA Name of the group: English language courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
B0B04A21	English Language A2-1 Dana Saláková	Z		2s	Z	V
B0B04A22	English Language A2-2 Dana Saláková	Z	0	2s	L	V
B0B04B11	English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	Z	V
B0B04B12	English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	L	V
B0B04B21	English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z	V
B0B04B22	English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z,L	V

Characteristics of the courses of this group of Study Plan: Code=2015_BJKA Name=English language courses

B0B04A21	English Language A2-1	Z	
The course is open to s	tudents who are beginners in their second language. Course objective: Achieving competence in basic English.		
B0B04A22	English Language A2-2	Z	0
The course is open to s	tudents who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowl	edge of the English	sh language.
B0B04B11	English Language B1-1	Z	0
Course objective: Broad	ening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary	expansion; under	standing spoken
English.			

B0B04B12	English Language B1-2	Z	0
Course objective: Broad	ening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary	expansion; under	rstanding spoken
English.			
B0B04B21	English Language B2-1	Z	3
This course is designed	as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk	B2 - zkouška - B0	B04B2Z*). While
the course is focused or	n helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mar	k), it also focuses	more on the
academic and technical	vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an approximately a student of the student	priate level of Eng	glish for Erasmus
/ International Study.			
B0B04B22	English Language B2-2	Z	3
This course is designed	as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk I	32 - zkouška - B0l	B04B2Z *). While
the course is focused or	n helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mar	k), it also focuses	more on the
academic and technical	vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an approximately a student of the student	priate level of Eng	glish for Erasmus
/ International Study.			
Code of the gr	oup: BTV		

Name of the group: Physical education

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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
TVV	Physical education	Z	0	0+2	Z,L	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V

Characteristics of the courses of this group of Study Plan: Code=BTV Name=Physical education

TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0

Code of the group: BTVK

Name of the group: Physical education courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

Characteristics of the courses of this group of Study Plan: Code=BTVK Name=Physical education courses

TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Code of the group: 2018_BEEMVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: ~Nabíd

~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

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
	ices students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical method		
	al solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical		
B0B01KANA	Complex Analysis	Z,ZK	4
i ne course is an	introduction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform are applications, particularly to solving differential and difference equations.	e explained, inclu	laing their
B0B01LAGA	Linear Algebra	Z,ZK	7
	introductory topics of linear algebra. It begins with fundamental concepts related to vector spaces and linear transform (such as linear dep		-
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 tran lications include solving systems of linear equations, geometry in three-dimensional space (including dot and cross products), and the s of a matrix.	sformation, eige	nvalues and
B0B01MA1A	Mathematical Analysis 1 This is an introductory course to differential and integral calculus of functions of one real variable.	Z,ZK	6
B0B01MA2A	Mathematical Analysis 2	Z,ZK	6
The subject cove	rs an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals. C	Other part contain	ns function
	series and power series with application to Taylor and Fourier series.		
B0B01STP	Statistics and Probability	Z,ZK	5
I he aim of the c	course is to introduce students to the fundamentals of probability theory and mathematical statistics, their computational methods as we mathematical tools to practical examples.	as applications	s of these
B0B04A21	English Language A2-1	Z	
DUDU4A21	The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic Eng		
B0B04A22	English Language A2-2	Z	0
	en to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowledg	_	-
B0B04B11	English Language B1-1	Z	0
Course objective: E	broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion	nsion; understan	ding spoken
	English.		
B0B04B12	English Language B1-2	Z	0
Course objective: E	Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion	nsion; understan	ding spoken
	English.		
DOD04D4K	English language D1 elegatified approximant	1/7	0
B0B04B1K	English language B1 - classified assessment	ΚZ	0
	verifying of the student's skills of B1 level		I -
B0B04B21		Z	3
B0B04B21 This course is desi	verifying of the student's skills of B1 level English Language B2-1	Z kouška - B0B04B	3 32Z*). While
B0B04B21 This course is desi the course is foc	verifying of the student´s skills of B1 level English Language B2-1 gned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - z	Z kouška - B0B04E t also focuses mo	3 B2Z*). While ore on the
B0B04B21 This course is desi the course is foc academic and tech B0B04B22	verifying of the student's skills of B1 level English Language B2-1 gned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - z used on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it nical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate / International Study. English Language B2-2	Z kouška - B0B04 t also focuses mo e level of English Z	3 32Z*). While ore on the for Erasmus
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B0B16HTE		1	
	History of technology and economic	ZK	2
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
B0B99PRPA	Procedural Programming	KZ	4
B1B02FY1	Physics 1	Z,ZK	8
The basic course of	physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first	t one is a classical	mechanics
and the second one	is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamic	s of the mass part	icle, system
of mass particles a	nd rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they	can meet during t	heir further
	al mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud		•
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
-	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	-	
-	es - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d	-	
	er in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following sectio ill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of sucl		
	puter vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec		1000103,
B1B13MVE1	Materials for Power Electrical Engineering	Z,ZK	4
	description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondu	· .	=
	niconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, to		-
	n higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental cond		
	for thin and thick films and with selected nanomaterials and their applications.	, 0,	
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	· ·	-
data processing, s	oftware tools and application examples. There are presented elementary digital circuits, the representation of numbers and their proc	essing in microcor	nputer and
fundamental blo	ck of microprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industrial	al condition are pro	esented.
B1B13SSE1	Solar Systems and Electrochemical Sources	Z,ZK	5
The course familiar	zes students with the basic principles of electrochemical sources and photovoltaic cells and systems. At the beginning, the emphasis		ng the basic
principle using the e	quivalent circuits and mathematical description. In the next section, the basic types of electrochemical sources and their technical param	neters are explored	separately.
Similarly, students b	become familiar with the technology of photovoltaic cells and modules. Another chapter is devoted to the basic applications such as so	olar-thermal. At the	e end of the
	urse, students become familiar with economical and technological implications of the combination of solar systems and electrochemi	ical sources.	
B1B13TEP	Electrical engineering technological processes	Z,ZK	4
-	ed in electronics, laser, and other beam technologies and IC packaging will be characterized. There will also be discussed fundamen		-
impregnation pro	cesses. The subject is also the basis for producing single-crystal Si. Technology using plasma technology, packaging, and basic asse	embly technologies	are also
	presented.		
B1B13TPR	Technological Project Planning	Z,ZK	5
	Management. Project Life Cycle. Project Framework. Project phases: Initial, Construct, Delivery and Support. Organizational project strund 5F. Project logic frame. Project schedule, GANTT, PERT. Process modelling. Management of risks and knowledge. Standards and		
5001, PEST a	management. Funding. Management Funding.	norms. Human re	sources
B1B13VES	Manufacturing of Electrical Components	Z,ZK	6
	ic components in general. Basic technology in use. Type of components: resistors, potentiometers, capacitors with foil dielectric. Ceran	· · ·	0
	to componente in general. Dasie technology in deel type of componente. Tesistore, potentioneters, capacitors with foir dielectric. Octain	nic and electrolytic	canacitors
	Electromechanical devices . Semiconductors, fabrication of vertical and horizontal structures, Packaging	nic and electrolytic	capacitors.
B1B13\/\/71	Electromechanical devices . Semiconductors, fabrication of vertical and horizontal structures. Packaging.		
B1B13VVZ1	Manufacturing of Power Devices	Z,ZK	4
The topic of the sub	Manufacturing of Power Devices	Z,ZK	4 s devoted to
The topic of the sub transformers and	Manufacturing of Power Devices	Z,ZK art of the subject is emiconductive dev	4 s devoted to
The topic of the sub transformers and converte	Manufacturing of Power Devices ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main part rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s ers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning	Z,ZK art of the subject is emiconductive dev of manufacturing	4 s devoted to vices and
The topic of the sub transformers and converte B1B14MIS	Manufacturing of Power Devices ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main pa rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s	Z,ZK art of the subject is emiconductive dev g of manufacturing. Z,ZK	4 s devoted to vices and 5
The topic of the sub transformers and converte B1B14MIS Power electron	Manufacturing of Power Devices ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main part rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s ers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning Microprocessors for Power Systems	Z,ZK art of the subject is emiconductive dev of manufacturing. Z,ZK MA system, analog	4 s devoted to vices and 5 g signal
The topic of the sub transformers and converte B1B14MIS Power electroni measurement, fast	Manufacturing of Power Devices ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main part or tating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power sers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning Microprocessors for Power Systems cs control computer structure, digital signal processor and ALU added features for fast real time calculations. Interrupt system and D	Z,ZK art of the subject is emiconductive dev of manufacturing. Z,ZK MA system, analog ramming language	4 s devoted to rices and 5 g signal ss for power
The topic of the sub transformers and converte B1B14MIS Power electroni measurement, fast systems software	Manufacturing of Power Devices ject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main part rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power sers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning Microprocessors for Power Systems cs control computer structure, digital signal processor and ALU added features for fast real time calculations. Interrupt system and Demulase signal measurement, fast impulse generation support, inter-computer communication, system and power management, prog	Z,ZK art of the subject is emiconductive dev of manufacturing. Z,ZK MA system, analog ramming language ittry, conversion fro	4 s devoted to vices and 5 g signal ss for power m analog
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B1B15EN2	Power Engineering 2	Z,ZK	5
B1B15EN3	Power Engineering 3	KZ	4
B1B15EPR1	Projects in Power Engineering	KZ	5
B1B15VYA	Computational Applications	KZ	4
B1B16MME	Macro and Microekonomics	Z,ZK	5
-	s, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod		-
	e, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary p		
•	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.		
B1B16UEE1	Economy of Power Industry	Z,ZK	5
B1B17EMP	Electromagnetic Field	Z,ZK	5
I	This course gets its students acquinted with principles and applied electromagnetic field theory basics.		1
B1B31EOS	Electric circuits	Z,ZK	6
The subject describe	es fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school	ols of different cat	egories and
form the basis of know	vledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavior	r of basic ideal circ	cuit elements
in DC circuits and in si	inusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also b	pe used for critical	assessment
	of the results of the analysis and simulation of electrical circuits by means of software tools.		
B1B34EPS	Elektronics for Heavy-current engeneering	KZ	4
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