Recomended pass through the study plan

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

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Pass through the study plan: Electrical Engineering, Power Engineering and Management - Electrical Power Engineering 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: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assessment, Z - assessment, 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
BEZM	Safety in Electrical Engineering for a master's degree Vladimír K la, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	z	Ρ
B1M15IAP	Engineering Applications Jan Kyncl Jan Kyncl (Gar.)	Z,ZK	5	2P+2C	Z	Ρ
B1M13JAS1	Quality and Reliability Pavel Mach, Denis Froš, Martin Molhanec Pavel Mach Pavel Mach (Gar.)	Z,ZK	6	2P+2C	Z	Ρ
B1M15PPE1	Elements and Operation of Electrical Power Systems Ivo Doležel, Zden k Müller Zden k Müller (Gar.)	Z,ZK	5	2P+2S	Z	Ρ
B1M14SSE	Machinery and Structures of Power Plants Petr Ko árník, Ji í Šastný Petr Ko árník Petr Ko árník (Gar.)	Z,ZK	5	2P+2C	Z	Ρ
B1M13EKP	Ecology and materials Ivan Kudlá ek, Eva Horynová, Jan Weinzettel, Branislav Dzur ák Ivan Kudlá ek Ivan Kudlá ek (Gar.)	Z,ZK	5	2P+2L	z	PZ
B1M15ETT	Electrical Heat Jan Kyncl Jan Kyncl (Gar.)	Z,ZK	5	2P+2S	Z	PZ

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
B1M16EKE1	Economy of Power Industry Ji í Vaší ek, Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	2P+2C	L	Ρ
B1M15ENY	Power Plants Zden k Müller, Jan Špetlík	Z,ZK	5	2P+2S	L	ΡZ
B1M15TVN	High Voltage Engineering Jan Koller, Jan Hlavá ek	Z,ZK	5	2P+2L	L	ΡZ
B1M14TVM	Theory and Application of Power Converters Jií Lettl Jií Lettl Jií Lettl (Gar.)	Z,ZK	5	2P+2L	L	ΡZ
		Min. cours.				
	Povinn volitelné p edm ty specializace	2 Min/M	Min/Max			5.4
2018_MEEMPV1	B1M16EUE1,B1M15ELS, (see the list of groups below)	Max. cours.	10/20			PV
		4				

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
B1MPROJ	Individual project Josef ernohous, Jan Kyncl, Zden k Müller, Ji í Vaší ek, Old ich Starý, Jan Bauer, Jan Jandera, Karel Künzel, Jaroslav Knápek, Josef ernohous Jan Jandera (Gar.)	Z	5	0p+4s	Z	Ρ
B1M13ASS	Solar Systems Application Vít zslav Benda, Jakub Holovský Jakub Holovský Vít zslav Benda (Gar.)	Z,ZK	5	2P+2L	Z	Ρ
B1M15DEE	Distribution of Electrical Energy Zden k Müller, Martin er an, Josef Tlustý, Ji í Vodrážka Zden k Müller (Gar.)	Z,ZK	5	2P+2S	Z	ΡZ
B1M14ESP	Electric Machinery and Apparatus Ond ej Lip ák, Pavel Mindl Pavel Mindl Pavel Mindl (Gar.)	Z,ZK	5	2P+2L	Z	PZ
B1M15PRE1	Transmission and Distribution of Electricity Ivo Doležel, Zden k Müller, Ladislav Musil Zden k Müller (Gar.)	Z,ZK	5	2P+2S	Z	ΡZ
2018_MEEMH	Humanitní p edm ty B0M16FIL,B0M16HVT, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 5/5			Ρ

Number of semes	ster: 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
BDIP25	Diploma Thesis	Z	25	22s	L	Р
2018_MEEMVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

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

Kód		Name of the group of group (for specification	courses and on see here or	codes of members of this below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
2018_ME	EMH		umanitní p ec	lm tv	Min.	cours. 1 cours. 1	Min/Ma			Ρ
B0M16FIL			B0M16HVT	History of science and technolog		B0M16H	SD1 I	listory of eco	nomy and soci	al st
B0M16PSM	Psycholog	/	A003TV	Physical Education		B0M16T	EO T	heology		
2018_MEE	MPV1	Povinn vol	itelné p edm	ty specializace		cours. 2 cours. 4	Min/Ma 10/20			PV
B1M16EUE1	Economy of	f Energy Use	B1M15ELS	Electrical Light		B1M14M	DS1 I	Nodeling of D	ynamical Syste	ems
B1M13VSE	Power com	ponents in electrical e					•			
2018_MEE	MVOL	Volite	Iné odborné	p edm ty	Min.	cours. 0	Min/Ma 0/999			v

List of courses of this pass:

Code	Name of the course	Completion	Credits
A003TV	Physical Education	Z	2
B0M16FIL		Z,ZK	5

B0M16HSD1	History of economy and social studies	Z,ZK	5
This subject deals	with the history of the Czech society in the 19th - 21th centuries. It follows the forming of the Czech political representation, its aims a		-
· · · · , · · · · · ·	the social and cultural development and coexistence of the various ethnical groups in the Czech countries.		
B0M16HVT	History of science and technology 2	Z,ZK	5
•	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude		
traditions of the su	bject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life engineers	and the influence	of technical
B0M16PSM	Psychology	Z,ZK	5
B0M16TEO	Theology	Z,ZK	5
	des to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture t The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones wh - religion from which graws our civilization up.	-	-
B1M13ASS	Solar Systems Application	Z,ZK	5
	ovoltaic phenomena. Photovoltaic cells and modules and their characteristics. Photovoltaic systems and their applications. Photo-thern		hoto-therma
B1M13EKP	power stations. Significance, economic and environmental aspects of solar energy exploitation. Ecology and materials	Z.ZK	5
	blogy from the perspective of ecology. Environmental assessment of the various types of surface protection. Environmental aspects of	,	-
	onmental impacts of electrical production. Ekodesign proposal of the electrical product. Principles of the proposal product for a difficult op of electrical waste.	perating environme	
B1M13JAS1	Quality and Reliability	Z,ZK	6
	definitions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reliab		-
	e area of reliability, basic distributions used in reliability and their basic characteristics. Back-up using a warm and cold standby, type: onents and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical metho		
	anagerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits		
B1M13VSE	Power components in electrical engineering	Z,ZK	5
Power semicone	ductor device (diodes, BJTs, thyristors, MOSFETs and IGBTs) and integraed structures (modules). Structures, function, characteristic	s and parameters	, Passive
	components of powet electronic. Connection of devices in parallel and in series.		
B1M14ESP	Electric Machinery and Apparatus	Z,ZK	5
	sed on contact and solid-state switching devices in LV networks. Basic topologies AC switches and stress of their components, system		
-	rotection circuits, testing electrical devices. The course also deals with the general theory of electrical machines. Magnetic field. Fund iency, voltage drop. Transients - switch to the network, a short circuit. Mathematical model of synchronous and asynchronous machine		
	starting and speed control. Influence of harmonic magnetic field. Single-phase induction motor. Work synchronous machine on a netw		
	capacity.		
B1M14MDS1		Z,ZK	5
The course deals w	vith combining knowledge of the dynamics of rigid bodies, fluid mechanics, aerodynamics, gas dynamics and thermodynamics in the co	manilation of nonli	
	of dynamia systems. Comingra are focused on accompling of numeric models in Matlah / Cimulink	Inpliation of nonli	near models
B1M1/SSE	of dynamic systems. Seminars are focused on assembling of numeric models in Matlab / Simulink.	-	
B1M14SSE The aim of the cour	Machinery and Structures of Power Plants	Z,ZK	5
The aim of the cour	Machinery and Structures of Power Plants se is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure,	Z,ZK properties and ch	5 aracteristics
The aim of the cour B1M14TVM	Machinery and Structures of Power Plants	Z,ZK properties and ch Z,ZK	5 aracteristics 5
The aim of the cour B1M14TVM The course focus basics	Machinery and Structures of Power Plants se is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure, Theory and Application of Power Converters	Z,ZK properties and cha Z,ZK rters. It also sumn other applications	5 aracteristics 5 narizes the
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