#### Recomended pass through the study plan

# Name of the pass: Specialization Management of Power Engineering and Electrotechnics - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

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

Power Eng. and Electr.

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 combined

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

#### Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
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	Р
BD1M15IAP	Engineering Applications  Jan Kyncl	Z,ZK	5	14KP+6KC	Z	Р
BD1M13JAS1	Quality and Reliability Pavel Mach, Martin Molhanec Pavel Mach Pavel Mach (Gar.)	Z,ZK	6	14KP+6KC	Z	Р
BD1M15PPE1	Elements and Operation of Electrical Power Systems  Jan Hlavá ek, Stanislav Bou ek	Z,ZK	5	14KP+6KS	Z	Р
BD1M14SSE	Machinery and Structures of Power Plants Petr Ko árník Petr Ko árník Petr Ko árník (Gar.)	Z,ZK	5	14KP+6KC	Z	Р
BD1M16FIU	Financial accounting Ji í Vaší ek	Z,ZK	5	14KP+6KS	Z	Р
		Min. cours.				
2018_MEEMH-K	Humanitní p edm ty BD0M16FIL,BD0M16HVT, (see the list of groups below)	1	Min/Max			
		Max. cours.	5/5			Р
		1				

#### Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BD1M16EKE1	Economy of Power Industry Ji í Vaší ek, Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	14KP+6KC	L	Р
BD1M16EVE	<b>Economics of Power Generation</b>	Z,ZK	5	14KP+6KS	L	PZ
BD1M16FIM1	Financial Management Old ich Starý, Július Bemš Old ich Starý Old ich Starý (Gar.)	Z,ZK	5	14KP+6KS	L	PZ
BD1M16MAR	Marketing	Z,ZK	5	14KP+6KS	L	PZ
BD1M16OVY	Operations Research Jaroslav Knápek	Z,ZK	5	14KP+6KS	L	PZ
		Min. cours.				
2010 MEEMDV2 K	Povinn volitelné p edm ty specializace BD1M16CTR1,BD1M16DES, (see the list of groups below)	3	Min/Max			D) /
2018_MEEMPV2-K		Max. cours.	15/45			PV
		9				

### 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
BD1MPROJ	Individual project Josef ernohous, Ji í Vaší ek, Stanislav Bou ek, Miroslav Vítek, Zden k Müller Old ich Starý Old ich Starý (Gar.)	Z	5	0p+4s	Z	Р
BD1M16EKL	Ecology and economy Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	21KP+3KS	Z	PZ
BD1M16MES	Management and Economics of Power Systems Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	14KP+6KS	Z	PZ
BD1M16MNR	Managerial Decision Making Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	14KP+6KS	Z	PZ
2018_MEEMPV2-K	Povinn volitelné p edm ty specializace BD1M16CTR1,BD1M16DES, (see the list of groups below)	Min. cours. 3 Max. cours. 9	Min/Max 15/45			PV

### Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BDIP25	Diploma Thesis	Z	25	22s	L	Р
BD1M16EKM	Econometrics and economic applications Šerzod Tašpulatov, Lubomír Lízal Lubomír Lízal (Gar.)	Z,ZK	4	14KP+6KS	L	PZ

## 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 o	codes of members of this r below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
2018_ME	ЕМН-К		umanitní p ed		Min.	cours. 1 cours. 1	Min/Ma			P
BD0M16FIL	Philosophy	2	BD0M16HVT	History of science and technolog	.	BD0M16	PSM	Psychology		
BD0M16TEO	Theology					•				
2018_MEE	MPV2-K	Povinn vo	litelné p edm	ty specializace		cours. 3 cours. 9	<b>Min/M</b> a			PV
BD1M16CTR1	Controlling		BD1M16DES	Power Transport Systems		BD1M16	EUE1	Economy of E	nergy Use	
BD1M15ETT	Electrical F	leat	BD1M16ENI	Environmental Engineering		BD1M16RES Development of Energy System		ems		
BD1M16JAK	Quality ma		BD1M16STA	Statistical methods in economics	$\overline{}$					

## List of courses of this pass:

Code	Name of the course	Completion	Credits			
BD0M16FIL	Philosophy 2	Z,ZK	5			
BD0M16HVT	History of science and technology 2	Z,ZK	5			
This subject traces	This subject traces historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate students' interest in the history are					
traditions of the sul	traditions of the subject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life and the influence of technical					
	engineers					
BD0M16PSM	Psychology	Z,ZK	5			

	Theology	Z,ZK	5
re aone through. T	les to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture t	he basic theologic	disciplines
3 3	he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who	o want to get know	/ Christianity
	- religion from which graws our civilization up.		_
BD1M13JAS1	Quality and Reliability	Z,ZK	6
	lefinitions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reliability		-
	e area of reliability, basic distributions used in reliability and their basic characteristics. Back-up using a warm and cold standby, types		-
	nents and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical method		
	nagerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits.		
BD1M14SSE	Machinery and Structures of Power Plants	Z,ZK	5
	se is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure,		
BD1M15ETT	Electrical Heat	Z,ZK	5
BD1M15IAP	Engineering Applications	Z,ZK	5
BD1M15PPE1	Elements and Operation of Electrical Power Systems	Z,ZK	5
D1M16CTR1	Controlling	Z,ZK	5
he aim of the cou	se is to present Management Control as a modern approach to Management of Enterprise, based on the Process and Activity Based	Management wh	ich supports
_	by the application of Project Management principles. The focus is on the integrative potential of Management Control in the Manage		
	Project Management. Special attention is paid to technical-financial integration and its impact. The emphasis is on Project Management.		-
which guarantee t	he company not merely to survive, but also to achieve high performance. The computerized models are used for presentation key prince the company not merely to survive, but also to achieve high performance. The computerized models are used for presentation key prince the company not merely to survive, but also to achieve high performance.	nciples, procedure	es and also
DD41440DE0	key links between the controlled entities and used managerial tools.	7 71/	
BD1M16DES	Power Transport Systems	Z,ZK	5
ne course is focus	ed on economical aspects of design and operation of various technical systems for various energy forms. That is road, railway and sh		iid and liquid
D4N440E17E1	fuel, district heating system, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transport		
BD1M16EKE1	Economy of Power Industry	Z,ZK	5
	financing of power companies. Cost structure of power generation and distribution. Prices and tariff systems for power, heat and gas	•	
Examples of eco	nomic evaluation and investment appraisal of the typical project in power sector. Renewable energy sources, externalities. Energy po Liberalization and power market development.	olicy and energy is	aw in CR.
DD4M46EKI		7 71/	- F
BD1M16EKL	Ecology and economy	Z,ZK	5
•	vironmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and climate on Surronmental impacts. Support schemes for renewable energy sources utilization. Economic effectiveness of renewable energy source and impacts.	_	
idei cycle and ei	economic instruments for economic activities regulation. Externalities. Environmental indicators.	es projects. Regul	atory and
BD1M16EKM	Econometrics and economic applications	Z.ZK	4
	etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression models.	,	1
notory of Economic	models, econometric analysis of economic situation	odolo, omnananoo	ao oquationo
BD1M16ENI	Environmental Engineering	Z,ZK	5
	ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrica	•	1
	practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in		
	he course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu re		
elf-renewing natur	al processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement	ted by laboratory	
	out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Pra		work carried
BD1M16EUE1	Economy of Energy Use	gue.	work carried
-	Leonomy of Energy Ose	gue. Z,ZK	work carried
	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterization	Z,ZK tion of aggregate,	5
	, 0,	Z,ZK tion of aggregate,	5 secondary
energy BD1M16EVE	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizal sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and Economics of Power Generation	Z,ZK tion of aggregate,	5
BD1M16EVE	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizal sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and Economics of Power Generation  Power sources overview, energy processes analysis.	Z,ZK tion of aggregate, financial analysis. Z,ZK	5 secondary
BD1M16EVE	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizal sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and Economics of Power Generation  Power sources overview, energy processes analysis.  Financial Management	Z,ZK tion of aggregate, financial analysis. Z,ZK  Z,ZK	5 secondary 5
BD1M16EVE BD1M16FIM1 Principles of finar	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizal sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and Economics of Power Generation  Power sources overview, energy processes analysis.  Financial Management  ce, present value and alternative cost of capital, net present value, valuation of bonds and stocks, investment decision and net prese	Z,ZK tion of aggregate, financial analysis. Z,ZK  Z,ZK  nt value, risk and	5 secondary 5 alternative
BD1M16EVE  BD1M16FIM1  Principles of finar ost of capital, risk	energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizal sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and Economics of Power Generation Power sources overview, energy processes analysis.  Financial Management  ce, present value and alternative cost of capital, net present value, valuation of bonds and stocks, investment decision and net prese and return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short term fin	Z,ZK tion of aggregate, financial analysis. Z,ZK  Z,ZK  nt value, risk and ance, cash flow m	5 secondary 5 alternative nanagement.
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BD1M16STA	Statistical methods in economics	Z,ZK	5					
Basic Concepts. Statistical series. Assortment. Distributions of frequencies. One-dimensional descriptive characteristics. Measures of variables, coefficient of skewness, coefficient of								
excess. Points estimates of basic characteristics. Interval estimates of basic characteristics. Hypothesis testing of basic characteristics. Individual indexs number. Aggregative indexs.								
Variable-structur	Variable-structure indexs. Multifactor indexs. Correlation and regression, Basic Concepts. Measurement of dependence intensity. Time series, concepts, qualities. Chronological							
	average . Time series - trends and extrapolation.							
BD1MPROJ	Individual project	Z	5					
Independent worl	k in the form of a project. A student will choose a topic from a list of topics specified by branch department. The project will be defend	ed within the frame	ework of a					
	subject.							
BDIP25	Diploma Thesis	Z	25					
Independent final	Independent final comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will							
be specified b	be specified by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensive final examination.							
BEZM	BEZM Safety in Electrical Engineering for a master's degree Z 0							
The course provi	The course provides for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical hazard of given branch of study.							
	Students receive indispensable qualification according to the current Directive of the Dean.							

For updated information see <a href="http://bilakniha.cvut.cz/en/f3.html">http://bilakniha.cvut.cz/en/f3.html</a> Generated: day 2024-07-27, time 08:42.