## 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 full-time

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

#### Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BEZM	Safety in Electrical Engineering for a master's degree Vladimir K la, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р
B1M15IAP	Engineering Applications Jan Kyncl Jan Kyncl (Gar.)	Z,ZK	5	2P+2C	Z	Р
B1M13JAS1	Quality and Reliability Zbyn k Plachý, Pavel Mach, Denis Froš, Martin Molhanec Pavel Mach Pavel Mach (Gar.)	Z,ZK	6	2P+2C	Z	Р
B1M15PPE1	Elements and Operation of Electrical Power Systems  Ivo Doležel, Zden k Müller Zden k Müller (Gar.)	Z,ZK	5	2P+2S	Z	Р
B1M14SSE	Machinery and Structures of Power Plants Petr Ko árník, Ji í Š astný Petr Ko árník Petr Ko árník (Gar.)	Z,ZK	5	2P+2C	Z	Р
B1M16FIU	Financial accounting Ji í Vaší ek, Július Bemš <b>Július Bemš</b> Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S	Z	Р
2018_MEEMH	Humanitní p edm ty B0M16FIL,B0M16HVT, (see the list of groups below)	Min. cours.  1 Max. cours.	Min/Max 5/5			Р

### 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
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	Р
B1M16EVE	Economics of Power Generation Martin Beneš Martin Beneš Martin Beneš (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16FIM1	Financial Management Július Bemš, Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16MAR	Marketing Ond ej Pešek Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16OVY	Operations Research Martin Beneš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	L	PZ
		Min. cours.				
0040 MEEMBYO	Povinn volitelné p edm ty specializace B1M16CTR1,B1M16DES, (see the list of groups below)	3	Min/Max			
2018_MEEMPV2		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
B1MPROJ	Individual project Josef ernohous, Jan Kyncl, Zden k Müller, Ji í Vaší ek, Old ich Starý, Jaroslav Knápek, Jan Jandera, Karel Künzel, Iva Mrkvi ková, Josef ernohous Jan Jandera (Gar.)	Z	5	0p+4s	Z	Р
B1M16EKL	Ecology and economy Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	3P+1S	Z	PZ
B1M16MES	Management and Economics of Power Systems Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	2P+2S	Z	PZ
B1M16MNR	Managerial Decision Making Martin Beneš, Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	Z	PZ
		Min. cours.				
2018 MEEMPV2	Povinn volitelné p edm ty specializace B1M16CTR1,B1M16DES, (see the list of groups below)	3	Min/Max			PV
ZOTO_IVILLIVII VZ		Max. cours.	15/45			FV
		9				

### 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
B1M16EKM	Econometrics and economic applications Šerzod Tašpulatov, Lubomír Lízal Lubomír Lízal (Gar.)	Z,ZK	4	2P+2S	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 courses and codes of members of this group (for specification see here or below the list of courses)		Com	pletion	Credi	ts Scope	Semester	Role		
2018_ME	ЕМН		umanitní p ec	lm tv	Min.	cours.	Min/M			P
B0M16FIL			B0M16HVT	History of science and technolog	g B0M16HSD1 History of ed		History of eco	conomy and social st		
B0M16PSM	Psycholog	у	A003TV	Physical Education		B0M16TI	Theology			
2018_MEE	EMPV2	Povinn vol	itelné p edm	tv specializace		cours. 3 . cours. 9	<b>Min/M</b> 15/4			PV
B1M16CTR1	Controlling	ng B1M16DES Power Transport Systems B1M16EUE1 Economy of En		nergy Use						
B1M15ETT	Electrical F	leat	B1M16ENI	Environmental Engineering		B1M16M	AS1 Marketing Strategies			
B1M16RES	Developme	ent of Energy Systems	B1M16JAK	Quality management		B1M16S	TA	Statistical methods in economics		

## 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 v	his 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 and achieved results as well a					
	the social and cultural development and coexistence of the various ethnical groups in the Czech countries.					

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-	History of science and technology 2	Z,ZK	5
traditions of the sub	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate student	nts' interest in th	e history and
traditions of the suc	oject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life a	and the influence	e of technical
DOMAGDOM	engineers Developed a la maria	7 71/	
B0M16PSM	Psychology	Z,ZK	5
B0M16TEO	Theology	Z,ZK	5
	les to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture th he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who	-	-
are gone through. I	re subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who - religion from which graws our civilization up.	want to get kno	w Christianity
B1M13JAS1	Quality and Reliability	Z,ZK	6
	إ Jefinitions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reliabil		_
	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		
control, mai	nagerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits.	Statistical inspe	ction.
B1M14SSE	Machinery and Structures of Power Plants	Z,ZK	5
The aim of the cours	se is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure, p	roperties and ch	aracteristics
B1M15ETT	Electrical Heat	Z,ZK	5
B1M15IAP	Engineering Applications	Z,ZK	5
B1M15PPE1	Elements and Operation of Electrical Power Systems	Z,ZK	5
B1M16CTR1	Controlling	Z,ZK	5
l l	se is to present Management Control as a modern approach to Management of Enterprise, based on the Process and Activity Based		l l
innovative changes	by the application of Project Management principles. The focus is on the integrative potential of Management Control in the Management	nent of Enterpris	se and on the
key role played by	Project Management. Special attention is paid to technical-financial integration and its impact. The emphasis is on Project Management	ent of innovation	processes,
which guarantee the	he company not merely to survive, but also to achieve high performance. The computerized models are used for presentation key prin	ciples, procedu	res and also
	key links between the controlled entities and used managerial tools.		1
B1M16DES	Power Transport Systems	Z,ZK	5
The course is focus	ed on economical aspects of design and operation of various technical systems for various energy forms. That is road, railway and shi	•	olid and liquid
DAMA OFICEA	fuel, district heating system, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transpo		
B1M16EKE1	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   pnomic evaluation and investment appraisal of the typical project in power sector. Renewable energy sources, externalities. Energy po		
Examples of eco	Liberalization and investment appraisal of the typical project in power sector. Nenewable energy sources, externalities. Energy pol	licy and energy	iaw iii Cix.
B1M16EKL	Ecology and economy	Z.ZK	5
	vironmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and climate c	,	1
-	ivironmental impacts. Support schemes for renewable energy sources utilization. Economic effectiveness of renewable energy source	_	
iudi cycle and di		s projects. Regu	latory and
idei cycle and ei	economic instruments for economic activities regulation. Externalities. Environmental indicators.	s projects. Regu	llatory and
B1M16EKM	economic instruments for economic activities regulation. Externalities. Environmental indicators.  Econometrics and economic applications	s projects. Regu	latory and
B1M16EKM		Z,ZK	4
B1M16EKM	Econometrics and economic applications	Z,ZK	4
B1M16EKM History of Econome	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo  models, econometric analysis of economic situation  Environmental Engineering	Z,ZK dels, simultaned	4 pus equations
B1M16EKM History of Econome	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo  models, econometric analysis of economic situation	Z,ZK dels, simultaned	4 ous equations
B1M16EKM History of Econome B1M16ENI The course focu	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo models, econometric analysis of economic situation  Environmental Engineering  ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in	Z,ZK dels, simultaned Z,ZK engineering into	4 pus equations 5 poclassical ress their
B1M16EKM History of Econome  B1M16ENI The course focu environmental processed consequences. The state of the	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo models, econometric analysis of economic situation  Environmental Engineering  ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in the course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu re	Z,ZK dels, simultaned Z,ZK engineering intofluences or add mediation. Inspi	4 bus equations 5 c classical ress their ration from
B1M16EKM History of Econome  B1M16ENI The course focu environmental processed consequences. The state of the	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo models, econometric analysis of economic situation  Environmental Engineering  ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in the course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu relations processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement	Z,ZK dels, simultaned Z,ZK engineering interfluences or add mediation. Inspired by laboratory	4 bus equations 5 c classical ress their ration from
B1M16EKM History of Econome  B1M16ENI The course focution environmental processing consequences. To self-renewing natural process.	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression momentals, econometric analysis of economic situation  Environmental Engineering  ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in the course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu relat processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Prage	Z,ZK dels, simultaned Z,ZK engineering inte fluences or add mediation. Inspi ed by laboratory jue.	4 bus equations 5 classical ress their ration from
B1M16EKM History of Econome  B1M16ENI The course focus environmental processed consequences. To self-renewing natural B1M16EUE1	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression momentals, econometric analysis of economic situation  Environmental Engineering  sees on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in the course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu relating processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Prage Economy of Energy Use	Z,ZK dels, simultaned Z,ZK engineering inte fluences or add mediation. Inspi ed by laboratory jue. Z,ZK	4 pus equations 5 poclassical ress their ration from a work carried
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B1M16EKM History of Econome  B1M16ENI The course focuse environmental processed for the consequences. The self-renewing natural energy  B1M16EUE1 Organization and energy B1M16EVE  B1M16FIM1 Principles of financost of capital, risk and cost of capital,	Econometrics and economic applications  etrics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression momentals, econometric analysis of economic situation  Environmental Engineering  ses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in the course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu related processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Prage Economy of Energy Use  energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizatis sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and fine 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 present and return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short term final processes and terms are regression and return, financial and real options, option valuation and application, hedging, short term final processes are reconomics.	Z,ZK dels, simultaned Z,ZK engineering into fluences or add mediation. Inspi ed by laboratory jue. Z,ZK on of aggregate nancial analysis Z,ZK  Z,ZK  at value, risk and unce, cash flow in Z,ZK ounting. Balance	4 pus equations  5 p classical rest their reation from work carried  5, secondary s.  5 d alternative management  5 e sheet, profi
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B1M16MNR	Managerial Decision Making	Z,ZK	5				
System approach	and decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objective	es, Stochastic pro	gramming,				
	Expert systems, Cluster analysis						
B1M16OVY	Operations Research	Z,ZK	5				
Art of modeling and elements of decision models, Linear programming, Transportation problem, Integer linear programming, Introduction to graphs theory, Nonlinear programming,							
	Dynamic programming, Monte Carlo simulation, Project management (CPM, PERT).						
B1M16RES	Development of Energy Systems	Z,ZK	5				
In this subject th	e basic questions of power stations design is solved. This design is discussed from viewpoint of ecology and level of used technolog	y. Special focus is	on future				
importance of clas	ssical and renewable energy resources. These kinds of energy resources are considered as the most important factor of future devel	opment of appropr	iate power				
inc	dustry systems. The subject provides overview of practical application of modern technologies to guarantee the development of energ	jetic systems.					
B1M16STA	Statistical methods in economics	Z,ZK	5				
Basic Concepts. St	atistical series. Assortment. Distributions of frequencies. One-dimensional descriptive characteristics. Measures of variables, coefficie	ent of skewness, c	oefficient of				
excess. Points esti	mates of basic characteristics. Interval estimates of basic characteristics. Hypothesis testing of basic characteristics. Individual indexs	s number. Aggrega	itive indexs.				
Variable-structur	e indexs. Multifactor indexs. Correlation and regression, Basic Concepts. Measurement of dependence intensity. Time series, concepts.	pts, qualities. Chro	nological				
	average . Time series - trends and extrapolation.						
B1MPROJ	Individual project	Z	5				
Independent work	c 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	comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h	ner branch of study	, which will				
be specified b	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehenses	ensive final examir	nation.				
BEZM	Safety in Electrical Engineering for a master's degree	Z	0				
The course provi	des for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical haza	ard 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 2025-11-20, time 19:33.