Study plan

Name of study plan: Electrical Engineering, Power Engineering and Management - Management of Power Eng. and Electr.

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Electrical Engineering, Power Engineering and Management

Type of study: Follow-up master full-time

Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 61

The role of the block: P

Code of the group: 2018_MEEMDIP Name of the group: Diploma Thesis

Requirement credits in the group: In this group you have to gain 25 credits Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 25 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
BDIP25	Diploma Thesis	Z	25	22s	L	Р

Characteristics of the courses of this group of Study Plan: Code=2018_MEEMDIP Name=Diploma Thesis

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 her branch of study, which will 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.

Code of the group: 2018_MEEMH

Name of the group: Humanities subjects

Requirement credits in the group: In this group you have to gain 5 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 5 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
B0M16FIL	Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	Z,ZK	5	2P+2S	Z,L	Р
B0M16HVT	History of science and technology 2 Marcela Efmertová, Jan Mikeš Marcela Efmertová (Gar.)	Z,ZK	5	2P+2S	Z,L	Р
B0M16HSD1	History of economy and social studies Marcela Efmertová	Z,ZK	5	2P+2S	Z,L	Р
B0M16PSM	Psychology Jan Fiala Jan Fiala (Gar.)	Z,ZK	5	2P+2S	Z,L	Р
A003TV	Physical Education	Z	2	0+2	L,Z	Р
B0M16TEO	Theology Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	Z,ZK	5	2P+2S	Z,L	Р

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

B0M16FIL		Z,ZK	5
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B0M16HVT	History of science and technology 2	Z,ZK	5
This subject traces hist	orical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate s	tudents' interest in	the history and
traditions of the subject	t, while highlighting the developments in technical education and professional organizations, the process of shaping scientific	life and the influe	nce of technical
engineers			
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 air	ns and achieved r	esults as well as
the social and cultural of	development and coexistence of the various ethnical groups in the Czech countries.		
B0M16PSM	Psychology	Z,ZK	5
A003TV	Physical Education	Z	2
B0M16TEO	Theology	Z,ZK	5
This subject provides to	o students the basic orientation in christian theology and requires no special previous education. After short philosophic lectu	re the basic theolo	ogic disciplines

are gone through. The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who want to get know Christianity

Code of the group: 2018_MEEMP

- religion from which graws our civilization up.

Name of the group: Compulsory subjects of the programme

Requirement credits in the group: In this group you have to gain 31 credits

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

Credits in the group: 31 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
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
B1M15IAP	Engineering Applications Jan Kyncl Jan Kyncl (Gar.)	Z,ZK	5	2P+2C	Z	Р
B1M13JAS1	Quality and Reliability Pavel Mach, Denis Froš, Martin Molhanec Pavel Mach Pavel Mach (Gar.)	Z,ZK	6	2P+2C	Z	Р
B1MPROJ	Individual project Ji í Vaší ek, Old ich Starý, Jan Kyncl, Jan Jandera, Karel Künzel, Zden k Müller, Jaroslav Knápek, Iva Mrkvi ková, Josef ernohous, Josef ernohous Jan Jandera (Gar.)	Z	5	0p+4s	Z	Р
B1M15PPE1	Elements and Operation of Electrical Power Systems Zden k Müller, Ivo Doležel, Jan Hlavá ek Zden k Müller (Gar.)	Z,ZK	5	2P+2S	Z	Р
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	Р

Characteristics of the courses of this group of Study Plan: Code=2018_MEEMP Name=Compulsory subjects of the programme

DANAGIAD		7.714	
Liberalization and power	r market development.		
Examples of economic	evaluation and investment appraisal of the typical project in power sector. Renewable energy sources, externalities. Energy p	olicy and energy I	aw in CR.
Fundamentals of finance	ing of power companies. Cost structure of power generation and distribution. Prices and tariff systems for power, heat and ga	s production and	distribution.
B1M16EKE1	Economy of Power Industry		5

B1M15IAP	Engineering Applications	Z,ZK	5
B1M13JAS1	Quality and Reliability	Z,ZK	6

Terminology and definitions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reliability as a part of quality. Basic definitions from the area of reliability, basic distributions used in reliability and their basic characteristics. Back-up using a warm and cold standby, types of warm and cold standbys. Reliability of components and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical methods and tools joined with quality control, managerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits. Statistical inspection.

B1MPROJ	Individual project	Z	5
Independent work in the	e form of a project. A student will choose a topic from a list of topics specified by branch department. The project will be defer	ided within the fra	mework of a
subject.			

subject.			
B1M15PPE1	Elements and Operation of Electrical Power Systems	Z,ZK	5
B1M14SSE	Machinery and Structures of Power Plants	Z,ZK	5
The aim of the course is	to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structi	ure, properties and	d characteristics.

Name of the block: Povinné p edm ty zam ení

Minimal number of credits of the block: 44

The role of the block: PZ

Code of the group: 2018 MEEMPPS4

Name of the group: Compulsory subjects of the specialization

Requirement credits in the group: In this group you have to gain 44 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 44

Note on the group: Specializace Management energetiky a elektrotechniky

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
B1M16EKL	Ecology and economy Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	3P+1S	Z	PZ
B1M16EKM	Econometrics and economic applications Lubomír Lízal, Šerzod Tašpulatov Lubomír Lízal Lubomír Lízal (Gar.)	Z,ZK	4	2P+2S	L	PZ
B1M16EVE	Economics of Power Generation Martin Beneš Martin Beneš Martin Beneš (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16FIM1	Financial Management Old ich Starý, Tomáš Králík, Július Bemš Tomáš Králík Old ich Starý (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16FIU	Financial accounting Ji í Vaší ek, Július Bemš Július Bemš Ji í Vaší ek (Gar.)	Z,ZK	5	2P+2S	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 Jaroslav Knápek, Josef ernohous, Martin Beneš Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	Z	PZ
B1M16MAR	Marketing Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S	L	PZ
B1M16OVY	Operations Research Jaroslav Knápek, Martin Beneš Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	L	PZ

Characteristics B1M16EKL	Englany and aconomy	Z.ZK	5
-	Ecology and economy ronmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and clir		•
	onmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and cilr nmental impacts. Support schemes for renewable energy sources utilization. Economic effectiveness of renewable energy so	•	
•	s for economic activities regulation. Externalities. Environmental indicators.	urces projects. Regu	iatory ariu
		7.71/	
B1M16EKM	Econometrics and economic applications	Z,ZK	4
•	rics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regress	sion models, simultan	eous equation
	analysis of economic situation		
B1M16EVE	Economics of Power Generation	Z,ZK	5
ower sources overv	iew, energy processes analysis.		
B1M16FIM1	Financial Management	Z,ZK	5
Principles of finance.	present value and alternative cost of capital, net present value, valuation of bonds and stocks, investment decision and net present value and alternative cost of capital, net present value, valuation of bonds and stocks, investment decision and net present value.	resent value, risk an	d alternative
	nd return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short te	erm finance, cash flow	v managemen
cost of capital, risk a	nd return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short to Financial accounting	erm finance, cash flow	v managemen 5
cost of capital, risk an		Z,ZK	5
cost of capital, risk and B1M16FIU Principles of account	Financial accounting	Z,ZK and accounting. Balar	5
cost of capital, risk and B1M16FIU Principles of account and loss account. Ca	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system a	Z,ZK and accounting. Balar	5
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statement.	Z,ZK and accounting. Balar nents. Hello.	5 nce sheet, prof
cost of capital, risk and B1M16FIU Principles of account and loss account. Cathering a Capital Capita	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system a sh flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems	Z,ZK and accounting. Balar nents. Hello.	5 nce sheet, prof
cost of capital, risk and an an analysis of account and loss account. Call and accounts course will give letermination of prices.	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well.	Z,ZK and accounting. Balar nents. Hello.	5 nce sheet, prof
cost of capital, risk and all and 16FIU Principles of account and loss account. Call and 16MES This course will give determination of pric and 16MNR	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 nce sheet, prof 5 arginal costs fo
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pric B1M16MNR System approach an	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making d decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objectives.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 nce sheet, prof 5 arginal costs fo
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pric B1M16MNR System approach an Expert systems, Clus	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making d decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objectives.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 nce sheet, prof 5 arginal costs fo
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of price B1M16MNR System approach an Expert systems, Clus B1M16MAR	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making d decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs fo 5 ogramming,
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pric B1M16MNR System approach an Expert systems, Clus B1M16MAR The role and function	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis Marketing	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs fo 5 ogramming,
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of price B1M16MNR System approach an Expert systems, Clus B1M16MAR The role and function	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises as and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis Marketing s of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The unit of the course as the course as well.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs fo 5 ogramming,
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pric B1M16MNR Bystem approach an Expert systems, Clus B1M16MAR The role and function Marketing-mix. Produ	Financial accounting ing. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as the flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem Management and Economics of Power Systems an overview of the various aspects of power supply with special emphasis on power management. The course characterises are and tariffs. Energy market principles and operational decision making are integral parts of the course as well. Managerial Decision Making decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis Marketing s of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The decit and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and material and accounting. Balar nents. Hello. Z,ZK energy costs and material and accounting and account and accounting ac	5 arginal costs for 5 ogramming, 5 ele and portfolio

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 15

The role of the block: PV

Code of the group: 2018_MEEMPV2

Name of the group: Compulsory elective subjects of the specialization

Requirement credits in the group: In this group you have to gain at least 15 credits (at most 45)

Requirement courses in the group: In this group you have to complete at least 3 courses (at most 9)

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
B1M16CTR1	Controlling	Z,ZK	5	2P+2S	Z	PV

B1M16DES	Power Transport Systems Miroslav Vítek Miroslav Vítek (Gar.)	Z,ZK	5	2P+2S	Z	PV
B1M16EUE1	Economy of Energy Use Ji í Beranovský Ji í Beranovský (Gar.)	Z,ZK	5	2P+2S	L	PV
B1M15ETT	Electrical Heat Jan Kyncl Jan Kyncl (Gar.)	Z,ZK	5	2P+2S	Z	PV
B1M16ENI	Environmental Engineering Jan Mikeš Jan Mikeš Jan Mikeš (Gar.)	Z,ZK	5	2P+2S	Z,L	PV
B1M16MAS1	Marketing Strategies Ond ej Pešek Ond ej Pešek (Gar.)	Z,ZK	5	2P+2S	Z,L	PV
B1M16RES	Development of Energy Systems Rostislav Krejcar Rostislav Krejcar (Gar.)	Z,ZK	5	2P+2S	Z	PV
B1M16JAK	Quality management Jan Jandera Jan Jandera (Gar.)	Z,ZK	5	2P+2S	Z	PV
B1M16STA	Statistical methods in economics Šerzod Tašpulatov Šerzod Tašpulatov (Gar.)	Z,ZK	5	2P+2S	Z,L	PV

Characteristics of the courses of this group of Study Plan: Code=2018_MEEMPV2 Name=Compulsory elective subjects of the specialization

B1M16CTR1	Controlling	∠,∠K	5
The aim of the course is	to present Management Control as a modern approach to Management of Enterprise, based on the Process and Activity Ba	ased Managemen	t which supports
innovative changes by the	ne application of Project Management principles. The focus is on the integrative potential of Management Control in the Man	agement of Enter	prise and on the
key role played by Proje	ct Management. Special attention is paid to technical-financial integration and its impact. The emphasis is on Project Manag	ement of innovation	on processes,
which guarantee the cor	npany not merely to survive, but also to achieve high performance. The computerized models are used for presentation key	principles, proced	lures and also
key links between the co	ontrolled entities and used managerial tools.		
B1M16DES	Power Transport Systems	Z,ZK	5
The course is focused of	n economical aspects of design and operation of various technical systems for various energy forms. That is road, railway an	d ship transport o	of solid and liquid
fuel, district heating sys	em, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transport.		

Economy of Energy Use Organization and energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterization of aggregate, secondary energy sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and financial analysis.

B1M15ETT	Electrical Heat	Z,ZK	5
B1M16ENI	Environmental Engineering	Z,ZK	5

The course focuses on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical engineering into classical environmental practices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial influences or address their consequences. The course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu remediation. Inspiration from self-renewing natural processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complemented by laboratory work carried out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Prague.

B1M16MAS1 Marketing Strategies

Z,ZK 5 Broadening of basic knowledge of marketing. The analysis of marketing strategies in different market situations. The firm's behaviour under competition and competitive advantage. Case studies in the field of product policy, price and condition policy, communication policy and distribution policy.

Development of Energy Systems

In this subject the basic questions of power stations design is solved. This design is discussed from viewpoint of ecology and level of used technology. Special focus is on future importance of classical and renewable energy resources. These kinds of energy resources are considered as the most important factor of future development of appropriate power industry systems. The subject provides overview of practical application of modern technologies to guarantee the development of energetic systems.

B1M16JAK Quality management

Z.ZK

5

History of quality management (QM), Current approaches to quality management, quality management system (QMS) based on ISO 9001, Process management, Quality planning, Metrology in QM, Control of documents and records, Internal audits of QMS, Continual improvement of QMS, Integrated management, Statistic methods in QM, Accreditation and certification

B1M16STA Statistical methods in economics

Z,ZK

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-structure indexs, Multifactor indexs, Correlation and regression, Basic Concepts, Measurement of dependence intensity, Time series, concepts, qualities, Chronological average. Time series - trends and extrapolation.

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: MTV

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
A003TV	Physical Education	Z	2	0+2	L,Z	٧
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V
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=MTV Name=Physical education

A003TV	Physical Education	Z	2
TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Code of the group: 2018_MEEMVOL 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:

B1M14SSE

B1M15ETT

B1M15IAP

B1M15PPE1

B1M16CTR1

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

Z,ZK

Z,ZK

Z,ZK

Z,ZK

5

5

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	nd achieved result	s as well as
	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
This subject traces	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude	ents' interest in the	history and
traditions of the sul	oject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life	and the influence	of technical
	engineers		
B0M16PSM	Psychology	Z,ZK	5
B0M16TEO	Theology	Z,ZK	5
This subject provide	les to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture i	he basic theologic	disciplines
are gone through. T	he subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones wh	o want to get know	Christianity
	 religion from which graws our civilization up. 		
B1M13JAS1	Quality and Reliability	Z,ZK	6
Terminology and o	lefinitions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reliab	ility as a part of qu	ality. Basic
definitions from th	e area of reliability, basic distributions used in reliability and their basic characteristics. Back-up using a warm and cold standby, type	s of warm and cold	l standbys.
1	nents and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical metho	-	
control, ma	nagerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits	. Statistical inspect	tion.

The aim of the course is to present Management Control as a modern approach to Management of Enterprise, based on the Process and Activity Based Management which supports innovative changes by the application of Project Management principles. The focus is on the integrative potential of Management Control in the Management of Enterprise 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 of innovation processes, which guarantee the company not merely to survive, but also to achieve high performance. The computerized models are used for presentation key principles, procedures and also key links between the controlled entities and used managerial tools.

The aim of the course is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure, properties and characteristics.

Machinery and Structures of Power Plants

Electrical Heat

Engineering Applications

Elements and Operation of Electrical Power Systems

Controlling

B1M16DES	Power Transport Systems	Z,ZK	5
he course is focuse	ed on economical aspects of design and operation of various technical systems for various energy forms. That is road, railway and shi fuel, district heating system, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transpo		olid and liqui
DAMACEIZEA			
B1M16EKE1	Economy of Power Industry inancing of power companies. Cost structure of power generation and distribution. Prices and tariff systems for power, heat and gas	Z,ZK	5 distribution
	nomic evaluation and investment appraisal of the typical project in power sector. Renewable energy sources, externalities. Energy po		
Examples of econ	Liberalization and power market development.	ncy and energy	aw iii Cix.
B1M16EKL	Ecology and economy	Z,ZK	5
	rironmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and climate c	•	_
•	vironmental impacts. Support schemes for renewable energy sources utilization. Economic effectiveness of renewable energy source	•	
	economic instruments for economic activities regulation. Externalities. Environmental indicators.	-	
B1M16EKM	Econometrics and economic applications	Z,ZK	4
	rics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regression mo	•	1
,	models, econometric analysis of economic situation		•
B1M16ENI	Environmental Engineering	Z,ZK	5
	es on describing the interdisciplinary relationships of living and non-living nature with electrical engineering. By integrating electrical	•	
environmental pr	ractices, new methods and techniques are being developed that either focus on predictive environmental protection from industrial in	fluences or add	ess their
consequences. Th	ne course discusses both routinely used technologies as well as prototype and laboratory technologies, mostly applicable to insitu re	mediation. Inspir	ation from
elf-renewing natural	I processes provides the ideal motivation and platform for developing and testing new innovative methods. The course is complement		work carrie
	out at CTU, UCT, IMCH and selected excursions. Laboratory facilities have been created for the course at the FEE CTU in Prag		
B1M16EUE1	Economy of Energy Use	Z,ZK	5
-	nergy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy characterizati		-
	sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and fi		
B1M16EVE	Economics of Power Generation	Z,ZK	5
	Power sources overview, energy processes analysis.		
B1M16FIM1	Financial Management	Z,ZK	5
•	re, present value and alternative cost of capital, net present value, valuation of bonds and stocks, investment decision and net preser		
	nd return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short term fina		
B1M16FIU	Financial accounting	Z,ZK	5
	ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system and acc		
	account. Cash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated s		
B1M16JAK	Quality management	Z,ZK	5
	anagement (QM), Current approaches to quality management, quality management system (QMS) based on ISO 9001, Process ma Control of documents and records, Internal audits of QMS, Continual improvement of QMS, Integrated management, Statistic methoc	-	
		10 in ONA Accre	ditation and
ivietrology in QM, C		ds in QM, Accre	ditation and
	certification		r
B1M16MAR	certification Marketing	Z,ZK	5
B1M16MAR	certification Marketing ns of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The use of p	Z,ZK roduct life cycle	5
B1M16MAR he role and function	certification Marketing ns of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The use of p Marketing-mix. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit	Z,ZK roduct life cycle	5 and portfoli
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