## 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 Ζ 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	Z,ZK	5	2P+2S	Z,L	Р
B0M16HSD1	History of economy and social studies	Z,ZK	5	2P+2S	Z,L	Р
B0M16PSM	Psychology	Z,ZK	5	2P+2S	Z,L	Р
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	Р
B0M16TEO	Theology 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 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 subject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life and the influence 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 ain	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	This subject provides to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the basic theologic 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 Tomáš Králík	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 Zbyn k Plachý, Pavel Mach, Denis Froš, Martin Molhanec Pavel Mach Pavel Mach (Gar.)	Z,ZK	6	2P+2C	Z	Р
B1MPROJ	Individual project Jan Kyncl, Jan Jandera, Karel Künzel, Zden k Müller, Josef ernohous, Ivana Beshajová Pelikánová, Jan Bauer, Ji í Vaší ek, Old ich Starý Josef ernohous Jan Jandera (Gar.)	Z	5	0p+4s	Z	Р
B1M15PPE1	Elements and Operation of Electrical Power Systems Zden k Müller, Ivo Doležel 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

B1M16EKE1	Economy of Power Industry	Z,ZK	5
Fundamentals of finance	ring of power companies. Cost structure of power generation and distribution. Prices and tariff systems for power, heat and ga	as production and	distribution.
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.
Liberalization and power	er market development.		
B1M15IAP	Engineering Applications	Z,ZK	5
B1M13JAS1	Quality and Reliability	Z,ZK	6
	tions from the area of quality and reliability and their control, philosophy of quality, systems of quality control in the world. Reli		
	a of reliability, basic distributions used in reliability and their basic characteristics. Back-up using a warm and cold standby, ty		
	ts and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical me	•	
control, managerial too	ls for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits. Sta	tistical inspection.	
B1MPROJ	Individual project	Z	5
Independent work in th	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	nded within the fra	mework of a
subject.			
B1M15PPE1	Florents and Organization of Florence Downs Organization	7 716	
BINITOPPEI	Elements and Operation of Electrical Power Systems	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 structure, properties and 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

Note on the gr	oup.					
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	Z,ZK	4	2P+2S	L	PZ
B1M16EVE	Economics of Power Generation  Martin Beneš	Z,ZK	5	2P+2S	L	PZ
B1M16FIM1	Financial Management Tomáš Králík	Z,ZK	5	2P+2S	L	PZ
B1M16FIU	Financial accounting Ji í Vaší ek, Július Bemš <b>Július Bemš</b> 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, Martin Beneš Jaroslav Knápek Jaroslav Knápek (Gar.)	Z,ZK	5	2P+2C	Z	PZ
B1M16MAR	Marketing Ond ej Pešek	Z,ZK	5	2P+2S	L	PZ
B1M16OVY	Operations Research Jaroslav Knápek	Z,ZK	5	2P+2C	L	PZ

Characteristics B1M16EKL	Ecology and economy	Z.ZK	5
-	ronmental protection. Sustainable development. Global environmental problems and their aspects. Greenhouse effect and clir		-
•	nmental impacts. Support schemes for renewable energy sources utilization. Economic effectiveness of renewable energy so	•	
-	ts for economic activities regulation. Externalities. Environmental indicators.	1 , 3	•
B1M16EKM	Econometrics and economic applications	Z,ZK	4
History of Economet	rics, econometric models, input-output models, modelling of demand, time series models, production functions, linear regress	sion models, simultan	eous equations
models, econometric	analysis of economic situation		
B1M16EVE	Economics of Power Generation	Z,ZK	5
Power sources overv	view, 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 p	resent value, risk an	d alternative
- Illicipies di lilialice,			
•	nd return, lease or buy, taxes, inflation and return, financial and real options, option valuation and application, hedging, short to	erm finance, cash flow	v management
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 management 5
cost of capital, risk a		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 ting. 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 ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system ash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statem	Z,ZK and accounting. Balar nents. Hello.	5 nce sheet, profit
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system a sish 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, profit
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of price	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system a sish 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.	5 nce sheet, profit
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pricB1M16MNR	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 and tariffs. Energy market principles and operational decision making are integral parts of the course as well.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs for
cost of capital, risk at B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pricting B1M16MNR System approach an	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 sees 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 objectives.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs for
cost of capital, risk at B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of pricting B1M16MNR	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 sees 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 objectives.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs for
cost of capital, risk and B1M16FIU Principles of account and loss account. CaB1M16MES This course will give determination of price B1M16MNR System approach and Expert systems, Cluster B1M16MAR	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 sees 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	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs for 5 ogramming,
cost of capital, risk and B1M16FIU Principles of account and loss account. Cab B1M16MES This course will give determination of price B1M16MNR System approach an Expert systems, Clus B1M16MAR The role and function	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 sees and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  Managerial Decision Making Id 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 for 5 ogramming,
cost of capital, risk and B1M16FIU Principles of account and loss account. Cab B1M16MES This course will give determination of price B1M16MNR System approach an Expert systems, Clus B1M16MAR The role and function	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 sees and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  Managerial Decision Making Id decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis  Marketing In Marketing In Marketing In Marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The units of the marketing management of the marketing strategy.	Z,ZK and accounting. Balar nents. Hello. Z,ZK energy costs and ma	5 arginal costs for 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 and Expert systems, Cluster B1M16MAR The role and function Marketing-mix. Produte B1M16OVY	Financial accounting ting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system as ash 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 and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  Managerial Decision Making and decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objecter analysis  Marketing so of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The cuter 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 le 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	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	Z,ZK	5	2P+2S	Z	PV
B1M16STA	Statistical methods in economics	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 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.

B1M16DES **Power Transport Systems** 

5

The course is focused on economical aspects of design and operation of various technical systems for various energy forms. That is road, railway and ship transport of solid and liquid fuel, district heating system, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transport.

B1M16EUE1 Economy of Energy Use Z,ZK

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** B1M16FNI **Environmental Engineering** 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

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.

B1M16RES **Development of Energy Systems**  Z,ZK

5

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

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

TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V
TVKLV	Physical Education Course	Z	0	7dní	L	V

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

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

~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
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	and achieved result	ts 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 studies	ents' interest in the	history and
traditions of the su	bject, 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 provid	des to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture	the 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	efinitions 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	d standbys.
	ments 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 inspec	tion.
B1M14SSE	Machinery and Structures of Power Plants	Z,ZK	5
The aim of the cour	se is to acquaint students with forms of energy transformation in power plants, describing the function of power facilities, their structure,	properties and cha	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
The aim of the coul	rse is to present Management Control as a modern approach to Management of Enterprise, based on the Process and Activity Base	d Management whi	ch supports
innovative changes	by the application of Project Management principles. The focus is on the integrative potential of Management Control in the Manage	ement 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 Manager	nent of innovation	processes,
which guarantee t	he company not merely to survive, but also to achieve high performance. The computerized models are used for presentation key pr	inciples, procedure	s and also
	key links between the controlled entities and used managerial tools.		
B1M16DES	Power Transport Systems	Z,ZK	5
The course is focus	sed on economical aspects of design and operation of various technical systems for various energy forms. That is road, railway and s	hip transport of sol	id and liquid
	fuel, district heating system, cable car and convenyor belt transport for solid fuel and mainly grid for electricity (power) transport	ort.	
B1M16EKE1	Economy of Power Industry	Z,ZK	5

Fundamentals of financing of power companies. Cost structure of power generation and distribution. Prices and tariff systems for power, heat and gas production and distribution. Examples of economic evaluation and investment appraisal of the typical project in power sector. Renewable energy sources, externalities. Energy policy and energy law in CR. Liberalization and power market development.

Development of environmental production. Sustainables development. Closal environmental products of subtractive development of commonital products. Special solve products of commonital products. Special solve products of subtractive subtractive subtractives. Products of subtractives and subtractives and subtractives. Products of	Development of animonic role calls of the control of the special production and their aspects. Greenhouse effects and crimate changes. Fostal roles, nuclear fuel special confirmation interfects for according statistics. Enconomental interfects are control activities in regulation, fortunalistics. Environmental indications.  BIMI6E/KM   Econometrics and concommitted production, fortunalistics. Environmental indications.  BIMI6E/KM   Econometrics and concommitted production of the control of the co	B1M16EKL	Ecology and economy	Z,ZK	5				
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BIMI6FIU Financial accounting Principles of accounting. Assets, inventory and financial investment book keeping. Debt and equity capital. Cost, revenues and profit. Tax system and accounting, Balance sheet, profit and loss account. Cash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statements. Helio.  BIMI6JAK Quality management (QM), Current approaches to quality management system (QMS) based on ISO 9001, Process management, URM, Control of documents and records, Internal audits of QMS. Continual improvement of QMS. Integrated management, Statistic methods in QM, Accreditation and certification  Arriveting Marketing and Arriveting management. Marketing research and marketing information system. Concepts of marketing strategy. The use of product life cycle and portfolio. Marketing-mink. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  BIMI6MAS1 Marketing mink. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  BIMI6MAS1 Marketing mink. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  BIMI6MAS1 Marketing mink. Product and service policy, pricing and contractation policy, communication policy and distribution policy.  BIMI6MAS1 Marketing mink. Product policy, price and condition policy, communication policy and distribution of competitive advantage. Case studies in the field of product policy, price and condition policy, communication policy and distribution policy.  BIMI6MES Management and Economics of Power Systems Z, ZK 5 This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and trainfile. Energy market principles and operational decision making an integral parts of the course as well.  BIMI6MSN Manageme	BIM16FIU Principles of accounting. Assets, inventory and financial investment book keeping Debt and equity explain. Cost, revenues and profit. Tax system and accounting Statences hele, profit and loss account. Cash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statements. Helic.  BIM16JAK   Quality management (QM), Current approaches to quality management quality management and profit. Tax system and accounting standards. Auditing, consolidated statements. Helic.  BIM16JAK   Quality management (QM), Current approaches to quality 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 of a current and accounting and audit.  BIM16MAR   The role and functions of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The use of product life cycle and portfolio. Marketing-mix. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  BIM16MAS1   Marketing Strategy in Admitted product policy, price and contractation policy, communication, distribution. Controlling and audit.  Marketing Strategy in Admitted product policy, price and condition policy, communication policy and distribution policy.  BIM16MES   Management and Economics of Power Systems   Z,ZK   5 This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  BIM16MNR   Management and Economics of Power Systems   Z,ZK   5 Art of modeling and elements of decision making, Decision making under uncertainty and risk, Decisions with multiple objectives. Slochastic programming, Ex								
Principles of accounting, Assets, inventory and financial investment book keeping, Debt and equity capital. Cost, revenues and profit. Tax system and accounting, Balance sheet, profit and loss account. Cash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statements tello.  B1M16JAK   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 CMS, Continual improvement of CMS, Integrated management, Statistic methods in CM, Accorditation and certification of certification.  B1M16MAR   Marketing   Z,ZK   5 The role and functions of the marketing management. Marketing research and marketing information system. Concepts of marketing strategy in Marketing of the marketing management. Marketing research and marketing information system. Concepts of marketing and audit.  B1M16MAS   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.  B1M16MES   Management and Economics of Power Systems   Z,ZK   5 This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  B1M16MNR   Management and Economics of Power Systems   Z,ZK   5 System approach and decision making, Decision making under uncertainty and risk, Decisions with multiple objectives. Stochastics programming, Temps programming, Temps programming, Introduction to graphs theory, Nonlinear programming, Dynamic programming, Temps programming, Temps programming, Introduction to graphs t	Principles of accounting, Assets, inventory and financial investment book keeping. Debt and equify capital. Cost, revenues and profit. Tax system and accounting, Balance sheet, profit and loss account. Cash flow statement. Analysis of company's financial position. International accounting standards. Auditing, consolidated statements. Helio.   B1M16JAK Quality management (QM). Current approaches to quality management (QMS) based on 180 9001, Process management. Quality planning, which is provided to the process and profit of the process of the process of the process and profit of the process of the process of the process and profit of the process o								
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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	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  B1M16MAR   Marketing management. Marketing research and marketing information system. Concepts of marketing strategy. The use of product life cycle and prortfolio. Marketing-mix, Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  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.  B1M16MES   Management and Economics of Power Systems   Z,ZK   5 This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  B1M16MNR   Management and Economics of Power Systems   Z,ZK   5 System approach and decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objectives, Stochastic programming, 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, PETT).  B1M16RES   Development of Energy Systems   Development of Energy Systems   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 ar			,	-				
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B1M16MAS1   Marketing-mix. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  B1M16MAS1   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.  B1M16MES   Management and Economics of Power Systems This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  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 objectives. Succhastic programming, 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 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.  B1M16STA   Statistical series. Assortment. Distributions of frequencies. One-dimensional descriptive characteristics. Measures of variables, coefficient	B1M16MAS1   Marketing-mix. Product and service policy, pricing and contractation policy, communication, distribution. Controlling and audit.  B1M16MAS1   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.  B1M16MES   Management and Economics of Power Systems   Z,ZK   5 This course will give an overview of the various aspects of power supply with special emphasis on power management. The course characterises energy costs and marginal costs for determination of prices and tariffs. Energy market principles and operational decision making are integral parts of the course as well.  B1M16MNR   Managerial Decision Making under uncertainty and risk, Decisions with multiple objectives. Stochastic programming, 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 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 classicial 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 appropriate power industry systems. The subject provides overview of practical application of modern technologies to guarantee the development of energetic systems.  B1M16STA   Statistical series. Assortment. Distributions of frequencies. One-dimensional d				-				
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