Recomended pass through the study plan

Name of the pass: Specialization Technological Systems - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Pass through the study plan: Electrical Engineering, Power Engineering and Management - Technological Systems Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Electrical Engineering, Power Engineering and Management

Type of study: Follow-up master combined

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

Number of semester: 1

| Number of Seme | | | | | | |
|----------------|---|------------|---------|----------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| BEZM | Safety in Electrical Engineering for a master's degree Vladimír K Ia, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K Ia (Gar.) | Z | 0 | 2BP+2BC | Z | Ρ |
| BD1M15IAP | Engineering Applications Jan Kyncl | Z,ZK | 5 | 14KP+6KC | Z | Ρ |
| BD1M13JAS1 | Quality and Reliability Pavel Mach, Martin Molhanec Pavel Mach Pavel Mach (Gar.) | Z,ZK | 6 | 14KP+6KC | Z | Ρ |
| BD1M15PPE1 | Elements and Operation of Electrical Power Systems Jan Hlavá ek, Stanislav Bou ek | Z,ZK | 5 | 14KP+6KS | Z | Р |
| BD1M14SSE | Machinery and Structures of Power Plants Petr Ko árník Petr Ko árník Petr Ko árník (Gar.) | Z,ZK | 5 | 14KP+6KC | Z | Ρ |
| BD1M13EKP | Ecology and materials Ivan Kudlá ek Ivan Kudlá ek (Gar.) | Z,ZK | 5 | 14KP+6KC | Z | PZ |
| BD1M13SVS | Simulation of Production Sytems Pavel Mach | Z,ZK | 5 | 14KP+6KC | Z | PZ |

| Number of semes | ster: 2 | | | | | |
|-----------------|--|--------------------------------------|------------------|----------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| BD1M16EKE1 | Economy of Power Industry Ji í Vaší ek, Old ich Starý, Tomáš Králík Tomáš Králík Old ich Starý (Gar.) | Z,ZK | 5 | 14KP+6KC | L | Ρ |
| BD1M14ESP | Electric Machinery and Apparatus Pavel Mindl, Vít Hlinovský Pavel Mindl | Z,ZK | 5 | 14KP+6KL | Z | ΡZ |
| BD1M13MAD | Control methods and testing in electrotechnology | Z,ZK | 5 | 14KP+6KL | . L | ΡZ |
| BD1M15TVN | High Voltage Engineering | Z,ZK | 5 | 14KP+6KL | L | ΡZ |
| 2018_MEEMPV1-K | Povinn volitelné p edm ty specializace BD1M16EUE1,BD1M15ELS, (see the list of groups below) | Min. cours. 2 Max. cours. 4 | Min/Max 10/20 | | | PV |

Number of semester: 3

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|--------------|--|-------------|---------|----------|----------|------|
| BD1MPROJ | Individual project Josef ernohous, Stanislav Bou ek, Ji í Vaší ek, Miroslav Vítek, Zden k Müller Old ich Starý Old ich Starý (Gar.) | Z | 5 | 0p+4s | Z | Ρ |
| BD1M13AEZ | Application of Electrochemical Sources | Z,ZK | 5 | 14KP+6KL | Z | Р |
| BD1M13ASS | Solar Systems Applications Vít zslav Benda, Ladislava erná, Jakub Holovský, Pavel Hrzina Vít zslav Benda Vít zslav Benda (Gar.) | Z,ZK | 5 | 14KP+6KL | . Z | ΡZ |
| BD1M15PRE1 | Transmission and Distribution of Electricity Stanislav Bou ek | Z,ZK | 5 | 14KP+6KS | Z | ΡZ |
| BD1M14TVM | Theory and Application of Power Converters Jan Bauer Jan Bauer Jan Bauer (Gar.) | Z,ZK | 5 | 14KP+6KL | . L | ΡZ |
| | | Min. cours. | | | | |
| 2018 MEEMH-K | Humanitní p edm ty | 1 | Min/Max | | | Р |
| | BD0M16FIL,BD0M16HVT, (see the list of groups below) | Max. cours. | 5/5 | | | Г |
| | | 1 | | | | |

| Number of semes | ster: 4 | | | | | |
|-----------------|--|------------------|------------------|-------|----------|------|
| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
| BDIP25 | Diploma Thesis | Z | 25 | 22s | L | Р |
| 2018_MEEMVOL-K | Volitelné odborné p edm ty | Min. cours. 0 | Min/Max 0/999 | | | V |

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

| Kód | | Name of the group of group (for specification | courses and on see here o | codes of members of this r below the list of courses) | Com | pletion | Credit | s Scope | Semester | Role |
|------------|------------|---|------------------------------|--|------|----------------------------|------------------------|---------------|----------------|------|
| 2018_MEE | ЕМН-К | н | umanitní p eo | dm ty | | cours. 1 cours. 1 | Min/Ma 5/5 | IX | | Ρ |
| BD0M16FIL | Philosophy | 2 | BD0M16HVT | History of science and technolog | | BD0M16 | PSM | Psychology | | |
| BD0M16TEO | Theology | | | | | | | | | |
| 2018_MEEI | MPV1-K | Povinn vol | itelné p edm | ty specializace | | cours. 2 cours. 4 | Min/Ma 10/20 | | | PV |
| BD1M16EUE1 | Economy c | of Energy Use | BD1M15ELS | Electrical Light | | BD1M14 | MDS1 | Modeling of D | ynamical Syste | ms |
| BD1M13VSE | Power com | ponents in electrical e | | | | | | | | |
| 2018_MEEN | IVOL-K | Volite | Iné odborné | p edm ty | Min. | cours. 0 | Min/Ma 0/999 | | | v |

List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|----------------------|--|-----------------------|--------------|
| BD0M16FIL | Philosophy 2 | Z,ZK | 5 |
| BD0M16HVT | 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 su | bject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life | and the influence | of technical |
| | engineers | | |

| BD0M16PSM | Psychology | Z,ZK | 5 | |
|--|---|---|---|---|
| BD0M16TEO | Theology | Z,ZK | 5 | |
| | des to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the | - | | |
| | he 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 know | v Christianity | |
| BD1M13AEZ | Application of Electrochemical Sources | Z,ZK | 5 | |
| | ction to chemical reactions commonly present in electrochemical sources, the technologies and manufacturing of commonplace accu | | | |
| | d in detail. In the course, there is presented the current state of the field of batteries for different types of applications - electromobility | - | | |
| - | Emphasis is also placed on the trends in simultaneously using of battery storage for balancing network characteristics, especially in o | | - | |
| BD1M13ASS | | Z,ZK | 5 | |
| The aim of the co | urse is to deepen the knowledge of the properties of semiconductor materials and structures that are important for a deeper understa | anding of the sem | niconductor | |
| | components technology . | | | |
| BD1M13EKP | Ecology and materials | Z,ZK | 5 | |
| | plogy from the perspective of ecology. Environmental assessment of the various types of surface protection. Environmental aspects of | | | |
| electronics. Enviror | imental impacts of electrical production. Ekodesign proposal of the electrical product. Principles of the proposal product for a difficult op | erating environm | ent. Disposa | |
| | of electrical waste. | 7 71/ | _ | |
| BD1M13JAS1 | | Z,ZK | 6 | |
| | definitions 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 | | - | |
| | prents and systems, calculation of reliability using composition and decomposition. and using a method of a list. Basic statistical method | | | |
| | nagerial tools for quality control. Techniques FMEA and QFFD, house of quality. Capability of a process. Taguchi loss function. Audits. | - | | |
| BD1M13MAD | | Z.ZK | 5 | |
| | the needs of electrical production and research. It discussed diagnostic of materials and measurements of material properties, includi | , | - | |
| THE COULSE IOHOWS | parameters of production and work environment. The subject also includes testing safe function of products and evaluating the obtain | - | ormportan | |
| BD1M1201/0 | | | 5 | |
| BD1M13SVS | Simulation of Production Sytems | Z,ZK | - | |
| | n the basis of knowledge of relationships between parameters, or using an experimental way. Factorial experiments for qualitative varia | | | |
| | of mathematical models and simulation of dynamic behavior of processes and systems are described. Basic methods of component m | | | |
| - | el are presented. The application on computer modeling and simulation of electrical, thermal and mechanical systems in power electric | | - | |
| or a complete mode | lectures. | cal engineering c | | |
| BD1M13VSE | Power components in electrical engineering | Z,ZK | 5 | |
| | Juctor device (diodes, BJTs, thyristors, MOSFETs and IGBTs) and integraed structures (modules). Structures, function, characteristic: | • | - | |
| | | e and narameter | | |
| Fower Semicond | | s and parameters | 5, 1 033100 | |
| | components of powet electronic. Connection of devices in parallel and in series. | - | | |
| BD1M14ESP | components of powet electronic. Connection of devices in parallel and in series. Electric Machinery and Apparatus | Z,ZK | 5 | |
| BD1M14ESP The course is focus | components of powet electronic. Connection of devices in parallel and in series. Electric Machinery and Apparatus sed on contact and solid-state switching devices in LV networks. Basic topologies AC switches and stress of their components, system | Z,ZK s with modern se | 5 5 | |
| BD1M14ESP The course is focus devices and their p | components of powet electronic. Connection of devices in parallel and in series. Electric Machinery and Apparatus sed on contact and solid-state switching devices in LV networks. Basic topologies AC switches and stress of their components, system rotection circuits, testing electrical devices. The course also deals with the general theory of electrical machines. Magnetic field. Funda | Z,ZK s with modern se amentals of comr | 5 miconducto nutation. The | |
| BD1M14ESP The course is focus devices and their p transformer effici | components of powet electronic. Connection of devices in parallel and in series. Electric Machinery and Apparatus ed on contact and solid-state switching devices in LV networks. Basic topologies AC switches and stress of their components, system rotection circuits, testing electrical devices. The course also deals with the general theory of electrical machines. Magnetic field. Funda ency, voltage drop. Transients - switch to the network, a short circuit. Mathematical model of synchronous and asynchronous machine | Z,ZK s with modern se amentals of comr s. A rotating mag | 5 miconducto nutation. The netic field. | |
| BD1M14ESP The course is focus devices and their p transformer effici | components of powet electronic. Connection of devices in parallel and in series. Electric Machinery and Apparatus ed on contact and solid-state switching devices in LV networks. Basic topologies AC switches and stress of their components, system rotection circuits, testing electrical devices. The course also deals with the general theory of electrical machines. Magnetic field. Funda ency, voltage drop. Transients - switch to the network, a short circuit. Mathematical model of synchronous and asynchronous machine starting and speed control. Influence of harmonic magnetic field. Single-phase induction motor. Work synchronous machine on a netw | Z,ZK s with modern se amentals of comr s. A rotating mag | 5 miconducto nutation. The netic field. | |
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