| STUDY MODULE DESCRIPTION FORM | | | | | | |
|---|---|---|--|---|--|--|
| | of the module/subject trical distribution | | | Code 1010311371010305996 | | |
| Field of | study | | Profile of study | Year /Semester | | |
| Electrical Engineering | | | (general academic, practical) (brak) | 4/7 | | |
| Elective path/specialty Distribution Devices and Electrical | | | Subject offered in: Polish | Course (compulsory, elective) obligatory | | |
| Cycle o | f study: | | Form of study (full-time,part-time) | | | |
| First-cycle studies | | | full-time | | | |
| No. of h | nours | | | No. of credits | | |
| Lecture: 15 Classes: - Laboratory: 15 | | | Project/seminars: | - 3 | | |
| Status of the course in the study program (Basic, major, other) (brak) | | | (university-wide, from another field) (brak) | | | |
| Education areas and fields of science and art | | | | ECTS distribution (number and %) | | |
| Responsible for subject / lecturer: dr hab. Ryszard Batura email: ryszard.batura@put.poznan.pl tel. 616652767 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań | | | | | | |
| Prerequisites in terms of knowledge, skills and social competencies: | | | | | | |
| 1 | Knowledge | Fundamentals of the electrical devices and measuring equipment and ots application. Knowledge. Knowledge of the single- and three-phase AC systems and the electric power distribution system?s structure. | | | | |
| 2 | Skills Ability to acquire information from the literature in the field and other sources and to a in evaluative way. Ability to deal with the analytical, simulation and experimental tools | | | | | |
| | | 1c. Has understanding of the asp decisions. Is able to work in the t | | er?s responsibility for made | | |
| 3 | Social competencies | Has basic knowledge of the construction solutions, parameters and choice criterions of electric power switches, MV switchgears, bus bars and bus ducts. Is able to construct the test networks and to carry out the electric power devices tests. | | | | |
| Assumptions and objectives of the course: | | | | | | |
| Has basic knowledge of the construction solutions, parameters and choice criterions of electric power switches, MV switchgears, bus bars and bus ducts. Is able to construct the test networks and to carry out the electric power devices tests. | | | | | | |
| Study outcomes and reference to the educational results for a field of study | | | | | | |
| Knowledge: | | | | | | |
| 1. Has knowledge about design, construction and operation principles of the electric power devices [K_W08 ++] | | | | | | |
| Skills: 1. Is able to apply properly the electric devices according to the general requirements and technical documentation | | | | | | |
| [K_U23 ++] | | | | | | |
| | al competencies: | | | all as to take as a second light of | | |
| | 1. Is aware of the importance of his work and is ready to respect the team operation rules as well as to take responsibility for the task accomplished together [K_K03 +] | | | | | |

Assessment methods of study outcomes

| Lecture: | | | | | | |
|---|--------|---------------|--|--|--|--|
| ?Assessment of the knowledge and skills during the problem-type written examination, | | | | | | |
| ?Continuous assessment, at each class (bonus for activity and perception quality). | | | | | | |
| Laboratory: | | | | | | |
| ?Test and bonus for a knowledge necessary to accomplish the problems posed in the lab task area, | | | | | | |
| ?Assessment of the knowledge and skills related to the class task accomplishment, assessment of the lab report. | | | | | | |
| Adding extra points for activity in discussions, especially for: | | | | | | |
| ?effectiveness of implementation of the knowledge acquired when solving a given problem. | | | | | | |
| ?ability to cooperate in the team accomplishing in practice a specific task in lab. | | | | | | |
| ?remarks related to the educational materials? enhancement, | | | | | | |
| ?care and esthetic form of the elaborated lab reports and designs ? within the individual work, | | | | | | |
| Course description | | | | | | |
| Basic construction solutions of the medium and low voltage switches (circuit-breakers, load interrupters, disconnectors). Bus bar, bus ducts and MV switchgears. Distribution apparatus choice criterions. Test networks? structure and electric power devices testing methods. | | | | | | |
| Laboratory subjects are related to those presented during lectures. | | | | | | |
| Basic bibliography: | | | | | | |
| 1. Markiewicz H.: Urządzenia elektroenergetyczne, WNT, Warszawa, 2001 | | | | | | |
| 2. Maksymiuk J.: Aparaty elektryczne, PWN, Warszawa, 1995. | | | | | | |
| 3. Flisowski Zd.: Technika wysokich napięć, WNT, Warszawa, 1999. | | | | | | |
| 4. Bolkowski St.: Teoria obwodów elektrycznych, WNT, Warszawa, 1995. | | | | | | |
| Additional bibliography: | | | | | | |
| 1. Magazins Elektroinstalator, Elektroinfo. | | | | | | |
| 2. Related standards. | | | | | | |
| 3. Manufacturers? data sheets. | | | | | | |
| 4. Internet publications | | | | | | |
| Result of average student's workload | | | | | | |
| | | Time (working | | | | |
| Activity | hours) | | | | | |
| 1. Lectures | 15 | | | | | |
| 2. Laboratory | 15 | | | | | |
| 3. Part in consultations | 30 | | | | | |
| 4. The preparation to occupations, the study of laboratory documentation | 30 | | | | | |
| Student's workload | | | | | | |
| | | | | | | |
| Source of workload | hours | ECTS | | | | |
| Total workload | 90 | 3 | | | | |
| Contact hours | 2 | | | | | |
| Practical activities | 1 | | | | | |
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