

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

| Subject name and code | Transitional team work, PG_00057330 | | | | | | | |
|--|---|--|--|---|-----------------------------------|---|--------------------------------|----------------------------------|
| Field of study | Power Engineering | | | | | | | |
| Date of commencement of studies | February 2024 | | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | second-cycle studies | | Subject group | | | Optional subject group Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | |
| Year of study | 1 | | Language of instruction | | | Polish | | |
| Semester of study | 2 | | ECTS credits | | 2.0 | | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | | |
| Conducting unit | Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Piotr Szczeciński | | | | | |
| | Teachers | | dr inż. Piotr Szczeciński | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM |
| of instruction | Number of study hours | 0.0 | 0.0 | 0.0 | 30.0 | | 0.0 | 30 |
| | E-learning hours inclu | uded: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | | SUM |
| | Number of study hours | 30 | | 2.0 | | 18.0 | | 50 |
| Subject objectives | Proseminar where stu designedto character general objectives of work and learning ne content and correct in | ize the problem transitional wo cessary to solv | n being solved rk are: preparii eselected issu | or the issue dis ng the student t es alone, acqui | scussed for indep iring the | in as n benden ability | nuch detail as t methodical | s possible.The and systematic |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|-------------------|--|---|---|
| | [K7_U01] is able to acquire information from literature, databases and other sources, has the ability of self-education in order to improve his/her professional competence (also in English), is able to prepare a simple scientific paper and its summary in English, as well as an oral presentation | Student presents the effects of work, discusses existing problems and remains open to suggestions from people in the group, exchanges experiences with other listeners. He shares his own previous experience, observations and gathered knowledge. Encountered design problems are discussed in the general forum. Thematic issues developed by each of the participants are coordinated in relation to the work performed by the team members. | [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information |
| | [K7_U04] is able to plan and perform experiments using measurements and computer simulations, together with interpretation of results, is able to present and evaluate the course and results of work in a team realizing an advanced engineering project, is able to use technical documentation and to create it independently | Based on the analysis of literature, technological solutions used and introduced technologies in the issues described, the student performs simplified technical and economic analyses, additionally determining the impact of the technologies used and introduced impacts on technological processes, the power system, including the transmission and distribution network, as well as the internal installation. | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment |
| | [K7_K01] is aware of the necessity of self-education and self- improvement within the scope of his/her occupation as a power engineer and possibilities of further education | Student presents the effects of work, discusses existing problems and remains open to suggestions from people in the group, exchanges experiences with other listeners. He shares his own previous experience, observations and gathered knowledge. Encountered design problems are discussed in the general forum. Thematic issues developed by each of the participants are coordinated in relation to the work performed by the team members. | [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills |
| | [K7_K02] is able to work in a group and take on different roles | Project groups distribute tasks to each member of the group, the work is coordinated by people who develop thematic issues that make up the whole work. Development of the schedule. The process of obtaining information, analyzing information, adapting technological solutions | [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills |
| | [K7_K03] is able to think and act creatively and entrepreneurially, is aware of the responsibility for his/ her own work and takes responsibility for teamwork | Project groups distribute tasks to each member of the group, the work is coordinated by people who develop thematic issues that make up the whole work. Development of the schedule. The process of obtaining information, analyzing information, adapting technological solutions. | [SK3] Assessment of ability to organize work [SK2] Assessment of progress of work |
| | Writing a transitional thesis is carried introduction, containing a brief overv of the work, consistent with its scope solved, list of source literature used, requirements of the work, requireme assumed that both the number of pa the discussed issue or the problem b have is 15 to 20 standard pages | iew of the subject, purpose and scop and topic, conclusions along with th attachments: tables, drawings, etc.D nts for references, etc.There is no fix ges and its form should bestrictly ad | e of the work, substantive content e assessment of the problem being betermining the editorial ted size of transition work. It is apted to the substantive scope of |

| Prerequisites and co-requisites | Course content: preparing the student for independent methodical and systematic work and learning necessary to solveselected issues alone and in a group, acquiring the ability to formulate scientific content and correct inference, as well as the ability to conductdiscussions, gaining experience by the student enabling independent implementation of the later diploma thesis of a specific substantive scope discussed in class, divided and consisting of issues to besolved by particular people, or problems solved by particular people, a work consisting of a written text and apresentation presenting the achieved results of the task will be prepared. The definition of the subject results from the interests of students. The tasks adopted for implementation require an analysis of the current state and the state that can beobtained after the introduction of new technologies allowing for the introduction of changes in the existingtechnological, functional, ecological and economic processes. The scope of the analyzes is limited to theexisting state and to the state with a possible technical and technological change defined as a possibility bystudents and modified depending on the technologies learned and the possibility of their use. The analyzedchanges to the existing solutions result mainly from reducing the impact on the environment, reducing pertering better management of raw materials while maintaining the climate strategies adopted bythe EU. Form of classes Determining the tasks to be performed in a group and individually by each student. Division and assignmentof small tasks dedicated to individual people combined into thematic groups, During the classes, the progress of individual students' work is discussed, problems are identified andsolutions are sought for the implementation of thematic objectives is possible to use, e.g. is cheager orintroduces other economic, ecological effects, etc. What additional benefits can be achieved after the use of the analyzed technologies. | | | |
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| A () () | presentation for evaluation. | | - | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | |
| and criteria | Works | 60.0% | 10.0% | |
| | Based on the written study | 60.0% | 80.0% | |
| | Based on the presentation | 60.0% | 10.0% | |
| Recommended reading | Basic literature | ofliterature concern: 1. Electric energy storage techniques 2. Generation of thermal energy 3. Generation of electricity 4. Transmission of electricity. 5. Energy Law (after amendment) 6. Polish Energy Policy until 2040 | | |
| | Supplementary literature | 1. Automation systems | | |
| | Control systems in power engineering DSM Mechanisms DSR mechanisms Electricity market6. Heating techniques | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | |
| | eResources addresses | | | |

| Example issues/ example questions/ tasks being completed | Thematic issues depend on the assigned topic pursued by students |
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| Work placement | Not applicable |