



Subject card

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| Subject name and code | Team Project, PG_00021232 | | | | | | |
| Field of study | Electrical Engineering | | | | | | |
| Date of commencement of studies | October 2021 | | Academic year of realisation of subject | | 2023/2024 | | |
| Education level | first-cycle studies | | Subject group | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 3 | | Language of instruction | | Polish | | |
| Semester of study | 6 | | ECTS credits | | 8.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Power Electronics and Electrical Machines -> Faculty of Electrical and Control Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Ireneusz Mosoń | | | | |
| | Teachers | | dr inż. Andrzej Augusiak dr hab. inż. Piotr Musznicki dr inż. Filip Kutt dr inż. Łukasz Sienkiewicz dr inż. Roland Ryndzionek | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 120.0 | 0.0 | 120 |
| | E-learning hours included: 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 | 120 | | 10.0 | | 70.0 | 200 |
| Subject objectives | The aim of the course is to prepare team projects together with employers and research teams composed of university employees. The projects can be used to prepare diploma theses. | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | K6_K01 | The student is aware and understands the need for continuous education and self-improvement in the field of his/her profession. Is able to work individually and in a group. Understands the importance of appropriate division of roles and tasks among group members and the role of management when working on a project. The student has knowledge enabling the development of models of proper behavior in the work environment. Knows the possibilities of further education. | [SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice |
| | K6_U09 | The student knows power systems and circuits and is able to select power equipment for various operating conditions. | [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment |
| | K6_W10 | The student is able to design electrical systems and has knowledge of the principles of rational use of electric energy in various types of electrical systems and their applications. | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects |
| | K6_K05 | The student knows and applies occupational health and safety rules, in particular those related to the use of electrical equipment. | [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work |
| Subject contents | Team implementation of a selected project in the field of electrical engineering and automation. Cooperation with project teams from other faculties. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Project | 100.0% | 100.0% |
| Recommended reading | Basic literature | 1. Self-selection of literature appropriate to the topic of the selected project. | |
| | Supplementary literature | 1. Grzybowski P.P., Sawicki K.: Pisanie prac i sztuka ich prezentacji. Oficyna wydawnicza "Impuls". Kraków 2010. 2. Wojciechowska R.: Przewodnik metodyczny pisania pracy dyplomowej. Wydawnictwo Difin. 2010. 3. Wolański A.: Edycja tekstów. Praktyczny poradnik. Wydawnictwo PWN. Warszawa 2008. | |
| | eResources addresses | Adresy na platformie eNauczanie: PROJEKT ZESPOŁOWY [IM][ET][2023/24] - Moodle ID: 36061 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36061 | |

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| Example issues/ example questions/ tasks being completed | <p>1. PLC software for managing the Distribution Hybrid Transformer in the LINTE^2 Laboratory.</p> <p>2. Construction and launch of a new Automatic Reserve Switching (SZR) controller in the LINTE^2 Laboratory power supply station.</p> <p>3. Energy and communication adaptation of an energy storage tank with a rated capacity of 24kWh for operation in the LINTE^2 Laboratory research installation.</p> <p>4. Design and construction of a universal wheelchair attachment.</p> |
| Work placement | Not applicable |