GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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| Subject name and code | Work placement, PG_00055914 | | |
| Field of study | Power Engineering, Power Engineering, Power Engineering | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2026/2027 |
| Education level | first-cycle studies | Subject group | Optional subject group |
| Mode of study | Full-time studies | Mode of delivery | at the university |
| Year of study | 4 | Language of instruction | Polish |
| Semester of study | 7 | ECTS credits | 6.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Division of Fluid-Flow Machinery -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Marzena Banaszek | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |

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 |
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| Number of study hours | 0 | 4.0 | 146.0 | 150 |

**Subject objectives**

Diploma internships give the opportunity to expand the acquired knowledge with practical skills to apply it in industrial conditions and allow students to test the acquired theoretical knowledge in practical situations. They allow you to learn the rules of operation of various enterprises, the specifics of work in various positions, the requirements of future employers and adapt your knowledge and skills to the technical problems of a given enterprise. Internships develop skills necessary in future professional work, e.g. analytical, organizational and teamwork skills. Internships are to help in the selection of further individual interests and are to develop interest in future directions of expanding theoretical knowledge.

<table>
<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[K6_U04] is able to design a simple device structure and prepare the accompanying technical documentation, conduct a basic technical and economic analysis of energy systems, including technologies using renewable and pro-ecological energy sources as well as conventional and nuclear energy, design energy installations for them and their basic elements (including electric lighting) ); select, operate and control the most commonly used electrical devices and drive systems.</td><td>is able to design a simple energy system based on renewable energy sources and prepare a preliminary design specification of the system elements</td><td>[SU4] Assessment of ability to use methods and tools<br>[SU3] Assessment of ability to use knowledge gained from the subject</td></tr>
<tr><td>[K6_U05] is able to formulate and carry out energy balances in devices and energy systems, also perform an energy audit of a simple building object, is able to perform a preliminary profitability analysis of a planned energy investment</td><td>is able to conduct thermodynamic, energy and technical-economic analysis of energy devices and systems</td><td>[SU4] Assessment of ability to use methods and tools<br>[SU2] Assessment of ability to analyse information</td></tr>
<tr><td>[K6_U12] can correctly choose tools (analytical or numerical) to solve engineering problems filtration processes, and data analysis; is able to use photogrammetric and remote sensing tools in engineering tasks in the field of geodetic techniques and metrology</td><td>is able to select the method, technique and tools used to solve complex engineering tasks in the field of energy-related issues</td><td>[SU4] Assessment of ability to use methods and tools</td></tr>
<tr><td>[K6_K01] is aware of the need for training and self-improvement in the profession of energy and the possibility of further education; can think and act in a creative and entrepreneurial manner; can define priorities for the implementation of an individual or group task</td><td>understands the need and knows the possibilities of continuous training, improving professional, personal and social competences</td><td>[SK5] Assessment of ability to solve problems that arise in practice</td></tr>
<tr><td>[K6_U14] can use properly selected methods and devices for hydraulics and hydrology, enabling determination of basic parameters characterizing the flow of medium in channels, pipelines and flow objects and can design installations, networks in the field of sanitary engineering</td><td>is able to use appropriately selected methods and devices enabling the measurement of basic quantities characterizing energy elements and systems</td><td>[SU2] Assessment of ability to analyse information<br>[SU4] Assessment of ability to use methods and tools</td></tr>
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<tr><td>Subject contents</td><td></td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge of subjects taught in semesters I-VI, with particular emphasis on vocational subjects.</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Internship report</td><td>100.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>https://wimio.pg.edu.pl/studenci/praktyki-i-staze<br><br>https://wimio.pg.edu.pl/studenci/praktyki-i-staze/energetyka</td></tr>
<tr><td>Supplementary literature</td><td>https://pg.edu.pl/biuro-karier</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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| Example issues/ example questions/ tasks being completed | 1. Describe the basic structures and organization of work in a company.<br>2. Discuss exemplary work on the operation, control, repair, installation and start-up of power equipment.<br>3. Discuss the principles of safe work in the company.<br>4. Describe the procedures for performing work on the repair and commissioning of power equipment.<br>5. Explain the principles of making technical documentation and instructions for power equipment. |
| Practical activites within the subject | Not applicable |

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