GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BSc Diploma Project, PG_00055989		
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 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	4	Language of instruction	Polish polish
Semester of study	7	ECTS credits	16.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Sanitary Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Sylwia Fudala-Książek	
	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
Number of study hours	0	25.0	375.0	400

Subject objectives

The objective of this course is the preparation of an engineering thesis, which takes the form of a design project, depending on the specific thesis profiles offered.

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<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_U13] can read architectural, construction and geodesy drawings, and can use the known computer software to prepare a drawing part of technical documentation for the sanitary, energy, hydropower industry and prepare a text or presentation including a discussion of the implemented results</td><td>Is able to extract from architectural and construction drawings and from site and elevation maps the data required to design [an energy installation/network/facility]. Is able to prepare, using [e.g. AutoCAD], the drawings that form the graphic part of the design (plans, diagrams, profiles). Is able to prepare a technical description and a presentation discussing the adopted solutions and calculation results.</td><td>[SU4] Assessment of ability to use methods and tools
[SU5] Assessment of ability to present the results of task</td></tr>
<tr><td>[K6_K02] is able to work in a group taking different roles in it, can think and act in an entrepreneurial way, is aware of responsibility for their own work and responsibility for teamwork</td><td>Is able to complete an assigned part of the task within a design team, taking on a selected role (e.g. coordinator, designer, presenter). Is able to agree on the scope and deadlines of the work with other team members and is ready to take responsibility for the quality and timeliness of their own part of the project.</td><td>[SK1] Assessment of group work skills
[SK3] Assessment of ability to organize work</td></tr>
<tr><td>[K6_W08] has basic knowledge in the field of intellectual property protection and patent law, knows and understands the basic processes of energy production and use, knows and understands the principles of modern heating and power systems</td><td>Knows the rules for using other authors' studies, technical solutions and data in design documentation, including citation rules and copyright protection of the design. Knows and is able to describe the process of energy generation and transmission in [the system/facility under consideration] and to explain the operating principles of its main components (source, district heating or power grid, consumers).</td><td>[SW2] Assessment of knowledge contained in presentation
[SW3] Assessment of knowledge contained in written work and projects</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>Is able to independently find and use current standards, guidelines and technical literature needed to solve a design task. Is able to propose their own technical solutions and to agree with the team on the sequence and priorities of the work so that the task is completed on time.</td><td>[SK1] Assessment of group work skills</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 measurement or calculation methods or numerical software to solve a design task in the field of [course topic]. Is able to acquire input data, including from maps, orthophotomaps or remote sensing data (e.g. a geoportal), process and analyse them, and use the results in the design.</td><td>[SU2] Assessment of ability to analyse information
[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 and skills acquired during the course of study.</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>Engineering diploma project</td><td>60.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>Literature, academic journals, websites, reports, and databases – as appropriate to the topic of the work and the scope of the degree project.</td></tr>
<tr><td>Supplementary literature</td><td>In accordance with the scope of the thesis.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Engineering diploma project within the scope of the chosen thesis topic.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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