GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Apprenticeship, PG_00059159		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	6.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Eliza Kulbat	
	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	0.0	160.0	160

Subject objectives

Familiarisation with management, operation, design and construction methods in environmental engineering.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U02] can work individually and in a team; knows how to estimate the time needed to complete the task ordered; is able to develop and implement a work schedule that ensures deadlines	The student is able to plan an individual or group task.	[SU2] Assessment of ability to analyse information
[K6_K01] can think and act in a creative and enterprising way; can set priorities for the implementation of an individual or group task; understands the need for continuous training and professional responsibility for their activities and team	Students are able to think and act in a creative, entrepreneurial way; they are able to determine priorities for the realization of an individual or group task; they understand the need to improve their professional qualifications.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work
[K6_W10] has elementary knowledge in the field of running a business in the sanitary industry; knows the general principles of creating and developing forms of individual entrepreneurship; knows the basic principles of health and safety at work in the laboratory and at the construction site	Student has an elementary knowledge of running a business in the sanitary industry and is familiar with the health and safety rules applicable in the laboratory and on site.	[SW3] Assessment of knowledge contained in written work and projects
[K6_U14] can organize, estimate executive construction works (installation) in accordance with the principles of construction technology and organization, apply the principles of safety and health at work during the implementation of engineering tasks	Students will know how to organise, cost executive installation work and apply health and safety principles.	[SU1] Assessment of task fulfilment

Subject contents

Prerequisites and co-requisites

Knowledge of the subjects studied in semesters I - VI, with particular emphasis on vocational subjects.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>internship report and certificate of completion</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Book publications, journals and online sources related to the scope of practice being carried out.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Book publications, journals and online sources related to the scope of practice being carried out.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Design and execution of sanitary installation, internal installation networks, gas installation networks, water supply networks, sewerage networks, district heating networks;
Preparatory work for construction of networks such as: profiling, routing, surveying,
Operation of facilities such as: wastewater treatment plants, municipal waste landfills, water treatment plants,
Practical familiarisation with the activities of regional water management authorities and environmental protection institutions, city or municipal councils,
Work in companies related to the operation and maintenance of water, sewage and heating networks.</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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