



Subject card

Subject name and code	Apprenticeship, PG_00059159						
Field of study	Environmental Engineering						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2024/2025		
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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Eliza Kulbat				
	Teachers						
Lesson types and methods of instruction	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_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		
	[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_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.			[SK3] Assessment of ability to organize work [SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice		
	[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		

Subject contents	<p>Place of internship: specialist companies in the sanitary industry or relevant departments in authorities. The scope of the internship depends on the place where the internship is carried out and gives the student the opportunity to become familiar with:</p> <p>a) with works related to the design or construction of sanitary installations, internal installations, gas installation networks, water supply networks, sewerage networks, district heating networks,</p> <p>b) with preparatory works for the construction of networks such as: profiling, routing, surveying,</p> <p>c) with technology and operation of facilities such as: wastewater treatment plants, municipal waste landfills, water treatment plants,</p> <p>d) with the activities of regional water management authorities and environmental protection institutions, city or municipal councils,</p> <p>e) with work in enterprises related to the operation and maintenance of water supply, sewerage and heating networks.</p>		
Prerequisites and co-requisites	Knowledge of the subjects studied in semesters I - VI, with particular emphasis on vocational subjects.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	internship report and certificate of completion	60.0%	100.0%
Recommended reading	Basic literature	Book publications, journals and online sources related to the scope of practice being carried out.	
	Supplementary literature	Book publications, journals and online sources related to the scope of practice being carried out.	
	eResources addresses	<p>Adresy na platformie eNauczenie:</p> <p>Praktyki zawodowe dla studentów kierunku IŚ_2025 - Moodle ID: 42274</p> <p>https://enauczenie.pg.edu.pl/moodle/course/view.php?id=42274</p>	
Example issues/ example questions/ tasks being completed	<p>Design and execution of sanitary installation, internal installation networks, gas installation networks, water supply networks, sewerage networks, district heating networks;</p> <p>Preparatory work for construction of networks such as: profiling, routing, surveying,</p> <p>Operation of facilities such as: wastewater treatment plants, municipal waste landfills, water treatment plants,</p> <p>Practical familiarisation with the activities of regional water management authorities and environmental protection institutions, city or municipal councils,</p> <p>Work in companies related to the operation and maintenance of water, sewage and heating networks.</p>		
Work placement	Not applicable		

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