

Subject card

Subject name and code	Apprenticeship, PG_00050086								
Field of study	Environmental Engineering								
Date of commencement of	3 0								
studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						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			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Enviro	nmental Engin	eering Technol	ogy -> Faculty	of Civil	and En	vironmental Er	ngineering	
Name and surname	Subject supervisor	visor dr hab. inż. Eliza Kulbat							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0		0.0	0	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11013								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	0		5.0	0			105	
Subject objectives	Getting to know the methods of management, operation, design and execution in environmental engineering.								
Learning outcomes	Course out	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 complete an individual or group task.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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		The student knows how to organize, cost estimate installation works and apply health and safety rules.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[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		The student is able to plan an individual or group task.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work			
			The student has elementary knowledge of running a business in the sanitary industry and knows the health and safety rules in the laboratory and on the construction site.			[SW1] Assessment of factual knowledge			

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Subject contents	Place of practice: specialized companies in the sanitary industry or relevant departments in offices. The scope of the internship depends on the place of the internship and gives the student the opportunity to learn about: a) with works related to the design or construction of sanitary and internal installations, gas, water supply, sewage and heating networks, b) with the performance of preparatory works for the construction of the network, such as: profiling, routing, surveying inventory, c) with technology and operation of facilities such as: sewage treatment plants, municipal waste landfills, water treatment plants, d) with the activities of regional water management boards and environmental protection institutions, the city or commune office, e) with work in enterprises related to the operation and maintenance of water supply, sewage and heating networks.						
Prerequisites and co-requisites	Knowledge of the subjects carried out in semesters I - VI, with particular emphasis on vocational subjects.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	certificate of completion of apprenticeship and apprenticeship report	60.0%	100.0%				
Recommended reading	Basic literature	Book publications, magazines and internet sources related to the scope of the implemented practice.					
	Supplementary literature	Book publications, magazines and internet sources related to the scope of the implemented practice.					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Design and construction of sanitary, internal, gas, water, sewage and heating installations; Performing preparatory works for network construction, such as: profiling, routing, geodetic inventory, Operation of facilities such as: sewage treatment plants, municipal waste landfills, water treatment plants, Practical familiarization with the activities of regional water management boards and environmental protection institutions, city or commune offices, Work in enterprises related to the operation and maintenance of water supply, sewage and heating networks.						
Work placement	Not applicable						

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