

Subject card

Subject name and code	, PG_00058828							
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			Obligatory subject group in the field of study		
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		2.0			
Learning profile	general academic profile		Assessme	ssessment form		exam		
Conducting unit	Department Of Sanitary Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor		dr inż. Karolina Matej-Łukowicz					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30
	E-learning hours inclu	uded: 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	30		5.0		18.0		53
Subject objectives	The objective of this course is to deepen students' understanding of equipment and fittings used in underground water supply and sewage systems. The lectures explore formal design principles, odor issues in sewage networks, the functioning of water supply and sewage systems, as well as the design and operation of sewage pumping stations. In the design workshops, students gain hands-on experience in creating and coordinating project documentation.							

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Learning outcomes	Course outcome	Subject outcome	Mothed of verification		
Learning outcomes K6_W09 has ordered, theoretically founded knowledge in the field of water supply, sewage, heating, ventilation and air conditioning, and the principles of shaping the microclimate of rooms; knows legal regulations, standardization issues and recommendations for the design of water supply, sewage, heating and gas networks and installations K6_U03 can prepare documentation regarding the implementation of an engineering task/project and prepare a text or		Subject outcome The student has theoretically based knowledge of the types and functions of individual elements of sewage networks and methods of wastewater disposal. The student can present the finished project, prepare all the required paperwork, and is understands the office where it will	Method of verification [SW3] Assessment of knowledge contained in written work and projects [SU1] Assessment of task fulfilment		
	presentation including a discussion of the results of the implementation	be submitted for acceptance.			
	[K6_W07] has a structured and theoretically founded knowledge in the field of materials used in the sanitary industry, their physicochemical properties; knows and understands the basic processes of their production	The student knows contemporary and previously used materials for water supply and sewage systems	[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U12] can design installations, networks and facilities: water supply, sewage, heating and gas	The student knows how to design water supply and sewage networks and installations, as well as intersections with other elements of the area infrastructure.	[SU4] Assessment of ability to use methods and tools		
[K6_U13] knows the rules of application and can choose the materials of the sanitary industry		The student has knowledge of the principles of selecting water supply and wastewaterinfrastructure.	[SU4] Assessment of ability to use methods and tools		
	Odor neutralization in sewage net stations4. Programs supporting the documentation				
Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Desing	60.0%	50.0%		
	Test	60.0%	50.0%		
Recommended reading	Basic literature	Bolt A., Burszta-Adamiak E., Gudelis-Taraszkiewicz K., Suligowski Z., Tuszyńska A.: Sewage system, 2012.Suligowski Z., Fudala-Książek S.: Execution and acceptance of sewage networks, Warsaw 2016Heindrich Z.: Water supply and sewage system part 1, 1999Heindrich Z.: Water supply and sewage system part 2, 1999			

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	Supplementary literature			
		M. Skotnicki, M. Sowiński: Assessment of the retention capacity of a sewage collector / Journal of Civil Engineering, Environment and Architecture - 2014, Vol. 31, no. 61, pp. 265-283M. Skotnicki, M. Sowiński: Use of synthetic precipitation in modeling runoff from urban catchments / Scientific Papers of the Rzeszów University of Technology. Construction and Environmental Engineering / Publishing House of the Rzeszów University of Technology 2012, no. 283, no. 59 (2/12/I), pp. 201-218Weismann D.: Municipal sewage pumping stations. 2000		
	eResources addresses	Adresy na platformie eNauczanie: Infrastruktura kanalizacyjna II - Moodle ID: 45433 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45433		
Example issues/ example questions/ tasks being completed	Specify the order in which the connection project will be implemented in formal terms. Specify the distances between the water supply, gas, heating, electricity and telecommunications infrastructure. Provide the distances between the sewage infrastructure, gas, heating, electricity and telecommunications infrastructure.			
Work placement	Not applicable			

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