



## Subject card

Subject name and code	Elective subject, PG_00060403						
Field of study	Spatial Development						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Gabriela Rembarz					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15	0.0		0.0		15
Subject objectives	Learning about the history and functioning of rainwater, sanitary and water systems in the city.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W02] has basic knowledge in the fields of science and scientific disciplines, relevant to spatial management, including history and theory of architecture, construction and related engineering industries	has basic knowledge in the fields of science and scientific disciplines, relevant to spatial management, including history and theory of architecture, construction and related engineering industries			[SW1] Assessment of factual knowledge		
	[K6_U07] evaluates the usefulness of standard methods and tools used in planning and management of spatial development and is able to select and apply the most appropriate ones	evaluates the usefulness of standard methods and tools used in planning and management of spatial development and is able to select and apply the most appropriate ones			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_K01] critically evaluates the received content; Recognizes the importance of knowledge in solving cognitive and practical problems; it reflects on the ethical, scientific and social aspects related to the urban planner and planner's work	critically evaluates the received content; Recognizes the importance of knowledge in solving cognitive and practical problems; it reflects on the ethical, scientific and social aspects related to the urban planner and planner's work			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	<p>Lectures and trips with the stream of the Siedlickiego and Srzyża Streams and getting to know the catacombs of the "Stary Sobieski" water reservoir</p> <p>1a. RAINWATER SEWERAGE: Downstream of the Siedlickiego Stream. Gdańsk is a mountain city - streams, not streams. Gdańsk mountain city - the principle of mountain rafting. Ujeścisko retention reservoir - failure. Pond Kartuska/Ujeścisko converted into a residential building. Zabornia retention reservoir. Middle Ages - warm times. 16th - 18th century - fortifications. 19th century liquidation of fortifications. XIX in the railway line - dry moat. Backfilling the moat - Nowe Ogrody/Kartuska Provincial Hospital - flat kd 1300. Why is it flooding the City Hall at the elevation of 11 m above sea level? The present - extension in the mountains without a receiver. The function of liquidated reservoirs. Missing tanks - ul. May 3, City Hall. Precipitation principle - precipitation during its duration. Fallout for architects</p> <p>1b. STORM SEWERAGE: Downstream of the Strzyża Stream. Gdańsk is a mountain city - streams, not streams. Shears a beautiful stream in the Reserve - an element in Wrzeszcz. Potok reservoir. Srebrzysko reservoir. The Maneż Reservoir is history The 'Stare Granary' Reservoir is also history. Nineteenth century - filling reservoirs. Nineteenth century - walling of channels. Modernity - expansion in the mountains with the same receiver - runoff coefficient increases several times. Loss of function and place of liquidated reservoirs. Principle of stream cross-section . Reservoir at the intersection at "Galeria Bałtycka" . "Gorski" Reservoir. Principle of retention reservoir. Why is Wrzeszcz flooded at ordinates of 10-12 m above sea level?</p> <p>2. SANITARY PIPING: From Lindley and Wiebe. thirteenth century - Potok Siedlicki wells supplied with drinking water. Septic tanks on the property. 14th century Radunia Canal 13.5 km, drinking water to the castle, mills, sawmill, smithy. 19th century - sewage system in the fight against diseases. XX in Cleanup East. Ks Sopotu - gravity function - 0 energy. The phenomenon of Sopot - no sewage treatment plant. Sanitary sewage for architects.</p> <p>3. WATER SUPPLY: From Potok Siedlicki and the Radunia Canal, the Middle Ages - the Siedlicki Potok, the Middle Ages, and the Radunia Canal. Water crafts - water pump. 19th century - waterworks in the fight against diseases. Gravity function - 0 energy. The phenomenon of Pręgowo, the Valley of Joy, Sarnie Wzgórza, and Brętowo. Sobieski Reservoir - the principle of intake-reservoir flows. 19th century - Grodz Kamienna - a symbiosis of the city and the shot. 20th century - water theft of Grodz Kamienna. The slow process of salinity receding probably takes about 30-40 years. Water for architects</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation / test	100.0%	100.0%
Recommended reading	Basic literature	as suggested by the teacher	
	Supplementary literature	as suggested by the teacher	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Why is it flooding UM at the elevation of 11 m above sea level?</li> <li>2. Principle of intake-reservoir flows.</li> <li>3. Drainage in the fight against diseases.</li> </ol>		
Work placement	Not applicable		