GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00061722		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2023/2024
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study Humanistic-social subject group
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Magdalena Gajewska	
	Teachers	prof. dr hab. inż. Magdalena Gajewska dr hab. inż. Krzysztof Czerwionka dr inż. Paweł Więcławski dr Dawid Potrykus dr hab. inż. Tomasz Kolerski dr inż. Wojciech Szpakowski dr hab. inż. Eliza Kulbat dr inż. Grażyna Gałęzowska prof. dr hab. inż. Michał Szydłowski dr inż. Karol Daliga prof. dr hab. inż. Adam Szymkiewicz	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	10.0	0.0	0.0	0.0	30
	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	30	3.0	70.0	103

Subject objectives	
	1. Familiarizing students with various forms of the city's impact on the natural environment.2. Presentation of exemplary problems and their solutions using modern engineering tools. Providing knowledge on the possibilities of mitigating mutual city-environment and environment-city impacts.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W08] has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities and their incorporation in engineering practice	has the knowledge necessary to understand the social, economic, legal and other non-technical conditions of engineering activities and to take them into account in engineering practice	[SW3] Assessment of knowledge contained in written work and projects
[K7_W02] has broadened and well-ordered knowledge of the current law on construction, water, environmental protection and planning and spatial planning.	has extensive and structured knowledge of the applicable construction, water and environmental protection regulations as well as spatial planning and development	[SW3] Assessment of knowledge contained in written work and projects
K7_W09	Has in-depth, structured, theoretically based knowledge related to: hydrology and water resources management	[SW3] Assessment of knowledge contained in written work and projects
K7_U11	will be able to integrate knowledge in the field of environmental engineering when formulating and solving design or research tasks, using a systemic approach, taking into account non-technical aspects (including economic and legal)	[SU5] Assessment of ability to present the results of task
[K7_K02] understands the need to formulate and communicate to the public information and opinions on the achievements in the environmental engineering and other aspects of the engineering activity in the sanitary sector; is aware of the importance and understands non-technical aspects and effects of engineering activities; strives to convey such information and opinions in a universally understandable manner, presenting various points of view	understands the need to formulate and provide the public with information and opinions on the achievements of environmental engineering and other aspects of the activities of a sanitary engineer; is aware of the importance and understands the non-technical aspects and effects of engineering activities; endeavors to convey such information and opinions in a way that is generally understandable, presenting different points of view	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

The following will be discussed: basic definitions, including the urbanized one, The future of cities - this way, the city as work, recreation, home, services: generation of waste (municipal and related to the production or provision of services), energy and water consumption (at least for social purposes), emissions gases and dusts to the atmosphere; Functions of the city, man in the urban environment - indoors and outdoors, noise, light pollution, water resources, extreme phenomena and

Prerequisites and co-requisites

environmental chemistry

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
testr	55.0%	100.0%

Recommended reading

Basic literature	sustainable development and the functions of cities in Poland : Research on the relationship between the sustainable development of medium-sized cities in Poland and the evolution of their functional structure, Dembicka-Niemiec Agnieszka Katarzyna
Supplementary literature	Świat na rozdrożu Marcin Popkiewicz
eResources addresses	Adresy na platformie eNauczanie: Środowiskowe Aspekty Miast - sem.2 NST_ WILIŚ 2023/24 kopia - Moodle ID: 38309 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38309

Example issues/ example questions/ tasks being completed	What is City 15 Minutes?What does drinking urban watercourse syndrome mean?What are the differences between water and sewage management in cities and industry?Threats resulting from improper city lighting ? How dangerous is noise to humans?Jamie, there are problems in the energy management of cities?
Work placement	Not applicable

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