University of Gdańsk

Subject card

Subject name and code	Green infrastructure in urban areas, PG_00144430						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2026/2027			
Education level	undergraduate studies		Subject group	Optional subject group Subject group related to scientific research 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	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Renata Afranowicz-Cieślak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		5.0	15.0	50	
Subject objectives	1. Types and functions of urban greenery. 2. Green innovations in cities - types, functions, ways of establishing and using. 3. Knowledge of the habitat requirements of plants used in creating green infrastructure. 4. Ability to select plant ingredients in the selected green infrastructure.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	- systematically updates natural knowledge and knows its practical application in the field of creating greenery in urban areas	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
[OZPL3_U04] The graduate is able to plan and carry out simple research tasks in the biological sciences under the guidance of a supervisor	- under the supervision of a supervisor, plans and performs simple tasks related to comprehensive planning of green innovation in the city	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
[OZPL3_W11] The graduate possesses a fundamental understanding of the concepts and terminology of natural science, as well as knowledge of the evolution of natural sciences and the research methods employed in them. They are also cognizant of the potential for practical application	- knows the basic terminology related to the functioning of green infrastructure in cities - knows innovative green investments in cities and ways of establishing and maintaining them in urbanized space	[SW2] presentation/project/paper/report

Subject contents

Types of urban green areas. The role and functions of green areas in urbanized areas. Characteristics of selected green investments in the city, including: flower meadows, vertical gardens, green tracks, rain gardens, pocket parks. Methods for designing, establishing and maintaining green innovations in cities. Biodiversity on green roofs, peat bogs and other green projects. Shaping green areas in cities - cooperation between institutions. Selection of plant species. Maintenance and protection of green areas.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
project and its presentation	51.0%	100.0%

Recommended reading

Basic literature	Kaźmierczak A. 2013. Innovative methods of supporting the creation of green infrastructure in cities: cooperation of local authorities with investors and building owners. Sustainability Applications 4: 99-109. Łukasiewicz A., Łukasiewicz S. 2006. The role and shaping of urban greenery. Script for students of Environmental Protection. Scientific Publishing House of Adam Mickiewicz University in Poznań. Oleksiejuk E., Piotrowiak. J. (ed.) 2005. Natural urban greenery - the wealth of the city. Management principles and protection. Ed. Polish Association of Sanitary Engineers and Technicians, Toruń Branch, Toruń. Oleksyn H. 2011. Plant compositions in shaping green areas. Ed. University of Life Sciences in Poznań. Poznań.
Supplementary literature	Asani A. 2007. The place and importance of urban green areas. Science notebooks. Environmental Engineering/University of Zielona Góra 135(15): 11-21. Czerowaniec M., Lewińska J. 2000. Greenery in the city. Institute of Spatial and Municipal Management, Kraków. Szczepańska, M., 2010. Green roof - an unusual place for rest and recreation. Studia Periegetica, 4: 149160. Kosmala M. (ed.) 2016. Green areas in the face of climate change. Polish Association of Sanitary Engineers and Technicians, Toruń Branch, Toruń, 228 pp. Zimny H. 2005. City ecology. Advertising and Publishing Agency A. Grzegorczyk, Warsaw.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Work placement	Not applicable

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