

Subject card

Subject name and code	Tree cover of urbanized areas, PG_00206992						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Freshwater Ecology -> Department of Plant Ecology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Krzysztof Banaś, prof. UG				
	Teachers						
Lesson types	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		2.0		8.0	25
Subject objectives	1. Understanding the phenomena and processes that determine the functioning of tree stands in urban areas. 2. Knowledge of the specific environmental conditions in urban areas. 3. Knowledge of the habitat requirements of species used in the creation of tree stands and practical solutions used to protect trees.						

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 their knowledge of natural sciences and knows its practical applications in the protection of urban tree stands	[SK8] observation of student's independent or team work
	[OZPL3_W11] The graduate have an advanced knowledge and 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 basic concepts and terminology related to the functioning of greenery in cities - knows the development of natural sciences, including research methods that have a potential impact on the protection of natural resources in urban areas	[SW4] test/exam - oral or written [SW3] text preparation/written work
	[OZPL3_K06] The graduate is prepared to demonstrate responsibility for their own and others' safe working conditions in the laboratory and in the field, and is able to recognise hazardous situations and take appropriate action	demonstrates responsibility for safe working conditions for themselves and others during field work, and is able to recognize hazardous situations and take appropriate action	[SK8] observation of student's independent or team work
	[OZPL3_W07] The graduate has an advanced understanding of the methods and means of nature and environmental protection, including nature monitoring	presents methods and ways of protecting tree stands and understands the need for constant monitoring of their health status	[SW4] test/exam - oral or written [SW3] text preparation/written work
Subject contents	Threats to trees resulting from growing construction, transportation, and underground infrastructure needs in urban areas; the impact of urban conditions on the condition of trees; the impact of trees on environmental conditions in the city; nuisances resulting from the presence of street trees; achieving and maintaining a stable tree structure, pruning, irrigation and fertilization, removing hazards and preventing the development of diseases and pests; protection of trees against soil compaction, salinization, and pollutionagrotechnical and structural solutions; methods of protecting trees during construction works; problems of old tree stands and rules for introducing new plantings; selection of trees for tree stands; trees in the city as an element of infrastructure, tree stand plans.		
Prerequisites and co-requisites	Prerequisites - none Additional requirements I. Passing grade - final grade determined according to a percentage scale (University of Gdańsk Study Regulations) - test with open-ended questions covering material from the lecture and the indicated literature II. Attendance - students are required to attend lectures, and any absences must be justified in accordance with the University of Gdańsk Study Regulations - to pass the lecture, students must attend at least 80% of classes - students are required to make up for any gaps in knowledge and skills caused by absence from lectures on their own or in the manner and within the time limit specified by the lecturer		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written work	51.0%	100.0%
Recommended reading	Basic literature	nie dotyczy	
	Supplementary literature	nie dotyczy	
	eResources addresses		
Example issues/ example questions/ tasks being completed	nie dotyczy		
Work placement	Not applicable		

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