

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Environmental principles of architectural and urban design, PG_00061489							
Field of study	Architecture							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific		
Mada of study	Full-time studies		Mada of dolivory			research in the field of study at the university		
Mode of study	2		Mode of delivery Language of instruction			Polish		
Year of study	3							
Semester of study	general academic profile		ECTS credits			1.0 assessment		
Learning profile	<u> </u>	Assessment form tegional Planning -> Faculty Of Archit					alitaabaiki	
Conducting unit	Gdańskiej	i Design And R	egional Plannii	ng -> Faculty C	ЛАГСПІІ	ecture -	-> vvyuziały P	OILIECHTIKI
Name and surname of lecturer (lecturers)	Subject supervisor	dr Miłosz Marciniak						
	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	10.0	0.0	0.0		0.0	25
	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	25		0.0		5.0		30
Subject objectives	Discussion of the physiographic relations and the identification of threats to the environment at the level of the organization of its components, including relations between people and buildings and between buildings and their surroundings, as well as the principles of sustainable development in design.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_K03] is ready to take responsibility for architectural and urban values in environmental protection and cultural heritage		is ready to take responsibility for architectural and urban values in environmental protection and cultural heritage			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W02] knows and understands the rules of gathering information and their interpretation as a part of project concept preparation; issues related to architecture and urban planning in the field of simple design problems solving		knows and understands the rules of gathering information and their interpretation as a part of project concept preparation			[SW1] Assessment of factual knowledge		
	architecture and between architecture and the surrounding environment, and the need to adapt architecture to human		knows and understands the importance of the natural environment in architectural, urban and spatial planning design; knows and understands relations between man and the surrounding environment, methods and means of implementing environmentally responsible sustainable design as well as protection and conservation of the surrounding environment			[SW1] Assessment of factual knowledge		

Subject contents						
Subject contents	<ul> <li>Lecture issues:</li> <li>Spatial and environmental information.</li> <li>Publicly available GIS platforms</li> <li>Landscape.</li> <li>Basic natural processes - functioning of the natural environment.</li> <li>Basic concepts of physical and geographical space.</li> <li>Dynamics and evolution of the natural environment.</li> <li>The main features of the geological structure of the Earth, the relationship between the bedrock and the topography.</li> <li>Assessment of soil and construction conditions.</li> <li>Assessment of soil and construction conditions.</li> <li>Assessment of the relief.</li> <li>Hydrological conditions of the area, analysis of inland and underground waters.</li> <li>Soil, soil conditions.</li> <li>Yegetation as an important element of the terrain physiognomy.</li> <li>Forms of nature protection.</li> <li>Natural conditions in the legal system.</li> <li>Regulations concerning ecophysiographic studies.</li> <li>Mechanisms and conditions of anthropopression, effects of anthropopressure.</li> <li>subject of exercises</li> <li>Land falls, land suitability of development</li> <li>Assessment of the risk of erosive processes</li> <li>Determining the boundaries of local catchments - slopes and directions of runoff</li> <li>surface water</li> <li>Determining the direction of runoff of the groundwater horizon 1, classification of the suitability of the slite of development 1, assessment of the risk of repsilong and resistance to anthropopressure. Health properties of selected plant communities</li> <li>Assessment of the conditions and possibilities of locating various objects. Protected areas</li> <li>Exposure and the potential length of the lighting time by</li> <li>Wind rose. Cool air flow directions.</li> </ul>					
Prerequisites and co-requisites	Ability to think abow of cause and effect, analysis in the field of general knowledge about natural relations and conditions influencing the directions of spatial organization of architectural objects and infrastructure in the context of environmental protection, physiographic and technical conditions.					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	execution of exercises	100.0%	50.0%			
	test or essay	60.0%	50.0%			
Recommended reading	Basic literature	<ol> <li>Introduction, Oxford University</li> <li>Steffen Lehmann, Gaëll Maing Series of Holistic Principles,Su Environment and Society 3.2  </li> <li>Strahler, Alan H. and Arthur Sta Science and Systems of the Hu</li> </ol>	e, Landscapes and Geomorphology: A Very Short xford University Press, 2010 nn, Gaëll Mainguy, Green Urbanism: Formulating a ic Principles,Surveys and Perspectives Integrating nd Society 3.2   2010, Vol.3 / n°2 1. and Arthur Strahler. 2003. Physical Geography: ystems of the Human Environment. 2nd Edition			
		John Wiley and Sons, New Yor	k.			
	Supplementary literature	<ol> <li>Forman, Richard &amp; Sperling, D Clevenger, Anthony. (2003). Re</li> </ol>	aniel & Bissonette, John &			
		<ol> <li>Forman, Richard &amp; Sperling, D Clevenger, Anthony. (2003). Re Solutions. Bibliovault OAI Repo Press.</li> </ol>	aniel & Bissonette, John & bad Ecology: Science And			
Example issues/ example questions/ tasks being completed Work placement	eResources addresses Exercise 31) On the assigned topog assumed design speed for the spee 2) Use the constans titl method whe turn of road arc with the correct radi	<ol> <li>Forman, Richard &amp; Sperling, D Clevenger, Anthony. (2003). Re Solutions. Bibliovault OAI Repo</li></ol>	aniel & Bissonette, John & bad Ecology: Science And bsitory, the University of Chicago ne the course of the road with the ng the left and right side of the map. he route.3) Perform at least one 4) Provide:- the adopted contour			

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