GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Elective design, PG_00056701		
Field of study	Przedmioty do wyboru		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Miłosz Marciniak	
	Teachers	dr Miłosz Marciniak	

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	0.0	0.0	15

Subject objectives

Teaching the specificity of regional divisions influencing the conditions of regional planning, including analysis of conditions, data interpretation, relations between planning and strategic documents of various levels, as well as the language of studies in the field of earth sciences and planning at a regional and over regional level.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W04] has basic knowledge in the field of pro-ecological design and knows the principles of sustainable development of cities and regions; has knowledge of the natural foundations of spatial management and the impact of natural conditions on the processes of economic development on a local, regional and national scale	Student is able to determine the conditions and factors of regional development in their spatial diversity and components that build the environment. Understands the influence of these factors on regional development. Understands various functions of the environment and the impact of natural conditions on the processes of economic development on a local, regional and national scale.	[SW1] Ocena wiedzy faktograficznej
[K6_W05] has basic knowledge in the field of city and region development management and implementation of investment projects, and also knows the principles of conducting business related to space management and general principles of creating and developing forms of individual entrepreneurship	Student is able to define the theories and factors of regional development in their historical diversity Understands the influence of historical and socio-cultural factors on regional development Understands various functions of the city and their consideration in spatial planning and city management	[SW1] Ocena wiedzy faktograficznej

<table>
<tr><td>Subject contents</td><td>1. The concept of the region. Features of natural regions: geographical individualism, hierarchy (typology), spatial continuity (topology), boundaries. Man and the natural region (region and region). Physical and geographical regionalization.2. Dimensions, features and properties of space. The impact of changes in land use on its water relations. The structure of space and its elements. Natural resources of the region (natural resources, water resources). Land use balance.3. Environmental predispositions of the area for various forms of human activity. Environmental conditions and limitations in the development of technical infrastructure (road, rail, pipeline transport, sewage networks). Physical, environmental, infrastructural and functional thresholds.4. Natural threats (climatic, hydrological, soil and geomorphological, geological and hydrogeological) - their distribution in the area of the region and importance for spatial management.5. The importance of forest areas for the functioning of the environment and spatial management in the region.6. Forms of nature protection - their environmental role and place in the spatial planning system of the region (biodiversity, natural habitats, priority species; forms of nature protection - management principles and conditions; Natura 2000 areas and their role in economically used areas).7.Ecological corridors - the environmental role and place in the spatial planning system of the region (ecological patches and corridors as elements of the landscape structure, European and national legal bases for determining ecological corridors, functions, structure and typology of ecological corridors, threats to the functioning of ecological migration corridors, good practices in the field of spatial development in the zone and around ecological corridors).

8. Qualitative features of the environment. One-dimensional and multi-dimensional assessments. The valuation method: the procedure of rank evaluation, types of basic fields, criteria for the evaluation of features, categorization according to the evaluation scale, ranking of units.9. Valuation assessment of the potential suitability of the site for various needs: - for agriculture in a review and detailed scale, - for the needs of tourism, recreation and leisure: - valorization of forest areas (resistance and absorbency), - valorization of lakes (bathing beaches, sailing, water tourism) - valorization of the visual attractiveness of the landscape, - valorization of the tourist attractiveness of the area.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
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<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>presentation</td><td>100.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Forman R. T. T., Godron M. (1981) Patches and Structural Components for a Landscape Ecology [w]: BioScience Vol. 31, No. 10 (Nov., 1981), s. 733-740, Wyd.: Oxford University PressForman R. T. T., Godron M. 1986. Landscape Ecology. John Wiley& Sons. New York Chchester Brisbane Toronto Singapore, s. 618. Forman RTT (2015) Launching landscape ecology in America and learning from Europe. [w:] Barrett GW, Barrett TL, Wu JG (eds) History of landscape ecology in the United States. Springer, New York, pp 1330Bennett, G., & Mulongoy, K. J. (2006). Review of Experience with Ecological Networks, Corridors and Buffer Zones (s.100). Montreal: Secretariat of the Convention on Biological Diversity, Technical Series No.
23. Bennett, A.F., 1990. Habitat Corridors: Their Role in Wildlife Management and Conservation. Wyd. Department of Conservation and Environment: Melbourne</td></tr>
<tr><td>Supplementary literature</td><td>Eugene P. Odum, Gary W. Barrett 2005, Fundamentals of Ecology (wyd. V), Thomson Brooks/ColeBelmont, California,Overdieck O., (red) G. Esser 1991, Modern Ecology: Basic and Applied Aspects, (wyd. IV) wyd. Elsevier, Amsterdam Opdam, P., R. Pouwels, S. van Rooij, E. Steingröver, and C. C. Vos. 2008. Setting biodiversity targets in participatory regional planning: introducing ecoprofiles. Ecology and Society 13(1): 20</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Legal (acts and regulactions) forms of protectionEnvironmental factors of spatial developmentBasic natural threats to spatial developmentWhat is a Natura 2000 areaWhat is the ecological corridor and what is its meaningWhat is the importance of wetlandsWhat is the importance of green infrastructure in cities</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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