

Subject card

Subject name and code	Determinants for sustainable development in spatial management, PG_00168189						
Field of study	Land Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	3		ECTS credits		3.0		
Learning profile	academic		Assessment form				
Conducting unit	Division of Landscape and Environmental Studies -> Institute of Socio-Economic Geography and Spatial Management -> Faculty of Social Sciences -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Barbara Korwel Lejkowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	60.0	0.0	0.0	0.0	0.0	60
	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	60		15.0		15.0	90
Subject objectives	Learning about: • Environmental and legal conditions for the protection and shaping of space • Legal, organizational, natural and functional conditions of environmental protection • Principles of shaping /use of space in conditions of sustainable development • threats to the environment and tools to counteract them • the material-horizontal and vertical structure of the environment • processes of the circulation of matter - the importance for the economy • measures and methods of analysis of the landscape structure • functioning of natural systems, determinants of habitat diversity and biodiversity						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GPL3_K04] initiate and actively participate in activities for the benefit of spatial order and sustainable development of the region, country and Europe	engages in solving dilemmas related to the profession in accordance with the principles of sustainable development	[SK4] test/exam - oral or written
	[GPL3_W02] problems, theories and trends in spatial management, taking into account aspects of the natural environment; understands their theoretical and practical significance	identifies, defines and characterizes simple interactions that occur between subsystems of the natural and human environment	[SW4] test/exam - oral or written
	[GPL3_W06] forms, methods and tools for space protection (environment, landscape, cultural heritage)	distinguishes and can present the basic forms, methods and tools for the protection of space (environment, landscape).	[SW4] test/exam - oral or written
	[GPL3_K06] care for the achievements and traditions of the profession, and comply with the principles of professional ethics by themselves and to demand that from others	works independently on the level of his professional and personal competence, understands the need to develop the achievements of the profession in accordance with the principles of ethics	[SK4] test/exam - oral or written
	[GPL3_W05] conditions and processes of spatial management, with particular regard to the specifics of Polish maritime areas and voivodeships of northern Poland	Recognizes and explains the basic natural conditions of spatial management processes with particular attention to the physical-geographical specificity of the coastal zone of the Southern Baltic, the South Baltic Coastland and South Baltic Lakelands	[SW4] test/exam - oral or written
Subject contents	Legal and organizational basis of environmental protection Motives and concepts of environmental protection Protection of nature Use of the environment and its consequences. Global and local threats to the environment Atmospheric air pollution Threats and protection of biodiversity Eco-development State monitoring of the environment Forests and their functions. Landscape ecology as a scientific discipline - history of development, relations with other sciences Concepts and terminology, specifics of landscape ecology research Main features of the natural environment and landscape research carried out in the stream of landscape ecology Horizontal and vertical structure of the natural environment - changes over time, measures and methods of analysis Ecotones as a specific element of landscape structure Relationships between components of the natural environment Functional structure - links between natural components and landscape units, methods of analysis Basics of ecology, determinants of ecosystem functioning and methods of study Functioning of biotic components of the landscape - biogeographical theories, patch and corridor model - with reference to the basics presented in the first year Green and blue infrastructure Fundamentals of urban ecology Landscape physiognomy - a synthetic approach Landscape functioning vs. principles of land management summary/synthesis (shaping ecological living conditions)		
Prerequisites and co-requisites	Knowledge of the content of the subject: Environmental Basis of Spatial Management		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam	51.0%	100.0%

Recommended reading	Basic literature	- Environmental Protection Law; - The Law on Nature Protection; - The Law on Water; - The Law on Protection of Agricultural and Forest Land; - Dobrzańska D., Dobrzański G., Kielczewski D., 2008, Protection of the natural environment, PWN, Warszawa. - Kistowski M., Wiśniewski P., 2017, Low-carbon rural development in Poland and low-carbon economy plans. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk - Maciak F., 2003, Protection of the natural environment, PWN, Warszawa. - Matuszkiewicz J.M., 2009, Forest complexes of Poland, PWN, Warszawa. - Matuszkiewicz W., 2011, Guide to the identification of plant communities of Poland, PWN, Warszawa. - Ostaszewska K., 2002, Landscape geography, PWN, Warszawa. - Przewoźniak M., Czochoński J.T., 2020, The natural basis of land management. An ecological approach. Wyd.Nauk. Bogucki, Poznań, pp.416; - Przewoźniak M., 1987, Fundamentals of complex physical geography, Wyd. UG, Gdańsk. - Richling A., 1992, Complex physical geography, PWN, Warszawa. - Richling, Solon, 1998, Landscape ecology, PWN, Warszawa. - Staszek W., 2005, Functional structure of the young glacial geosystem on the example of the Borucinka basin. Prace i Studia Geograficzne, Uniwersytet Warszawski, p. 79-95. - Staszek W., 2018, Influence of functional environmental processes on selected coastal ecosystems of the Gdańsk seashore, Ecological Questions 29 (2018) - Wiśniewski P., 2015: The anti-erosion function of soil-protective forests. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk
	Supplementary literature	- Cieszeńska A., 1998, The model of patches and corridors and its application, Warszawa. - Korwel B., Kistowski M., 2004, Landscape structure of young glacial areas in terms of the concept of matrices, patches and corridors methodological study on the example of the central part of the Kashubian Lakeland., Problemy Ekologii Krajobrazu t. XIV, p. 93-102. - Korwel-Lejkowska B., 2005, An attempt to assess the transformation of the landscape structure of the Pruszcz Gdański municipality in 1985-2000 in the light of natural conditions, Problemy Ekologii Krajobrazu, t. XVII, p. 131-139. - Krzymowska Kostrowicka A., 1997, Geoecology of tourism and leisure, PWN, Warszawa. - Kurek R., 2010, A guide to designing animal crossings and measures to reduce wildlife mortality along roads. - Pietrzak M., 1998, Landscape syntheses - assumptions, problems, applications, Bogucki Wyd. Naukowe, Poznań. - Richling A. (red.), 2007, Geographical studies of the natural environment, PWN, Warszawa. - Staszek W., 2007, Variability of plant landscapes of wet and swampy habitats as a result of variation of hydrochemical conditions in a young glacial catchment area [in:] K. Ostaszewska, I. Szumacher, S. Kulczyk, E. Malinowska (eds), Znaczenie badań krajobrazowych dla zrównoważonego rozwoju [Importance of landscape research for sustainable development]. Wyd. UW, Warszawa: 439-450. - Wiśniewski P., Wojtasik M., 2006: Environmental problems of the municipal waste landfill in Rozwarzyn near Nakło, Ekologia i Technika, vol.XIV, nr 2, 70-76. - Wiśniewski P., Loranc-Wiśniewska L., Wojtasik M., 2008: Financing environmental protection on the example of Bank Ochrony Środowiska S.A. Bydgoszcz Branch, Ekologia i Technika, vol. XVI, nr 5, 248-250.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. What elements does blue and green infrastructure consist of and what are the meanings for human living conditions ? 2. What environmental significance do ecological corridors have ? 3. Functions of green areas in cities. 4. Landscape and environmental effects of suburbanization	
Work placement	Not applicable	

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