


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
 Europejskiego Funduszu
 Społecznego

UNIA EUROPEJSKA
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 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Contemporary problems of environmental geography		7.1.0721	
Name of unit administrating study			
null			
Studies			
faculty	field of study	type	first tier studies (BA)
Faculty of Oceanography and Geography	Geography	form	full-time
		specialty	all
		specialization	all
Teaching staff			
dr hab. Wojciech Tylmann; dr Mirosława Malinowska; prof. dr hab. Mirosław Miętus; dr Janusz Filipiak; dr Włodzimierz Golus			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		3 Classes requiring the direct participation of an academic teacher: - participation in lectures 30 hours; - participation in the exam for 1 hour; - participation in consultations (offered contact) 10 h. The total number of hours 42. Number of ECTS credits 2 Student's own work: - preparation for the exam (studying literature) 33 h The total number of hours 36, number of ECTS points 1. The total student workload: 75 h. The total number of ECTS points: 3	
The realization of activities			
classroom instruction, online classes			
Number of hours			
Lecture: 30 hours			
The academic cycle			
2024/2025 winter semester			
Type of course		Language of instruction	
an elective course		English	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
- problem-focused lecture - seminar lecture		Final evaluation	
		Graded credit	
		Assessment methods	
		assignment work – project or presentation	
		The basic criteria for evaluation	
		In accordance with the University of Gdańsk Study Regulations: obtaining more than 50% of points in the written exam.	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
No formal requirements			
B. Prerequisites			
English skills at B+ level			
Aims of education			

<p>Presentation of selected problems and research directions in modern physical geography, particularly: - Past and modern global environmental changes - forcing factors, mechanisms and processes, and future implications.</p>	
<p>Course contents</p> <p>A.1 Past global changes: international research programs and scientific organizations. A.2 Scientific ocean drilling: the exploration of the seafloor. A.3 Ice core science: global climate changes in the past. A.4 Continental scientific drilling: environmental history recorded in terrestrial sediment archives. A.5 Human-environment interactions in the past: erosion, landscape evolution, pollution. A.6 Monitoring and modeling the water cycle – catchment and aquifer resources. A.7 Addressing water scarcity and quality: collection and collation of hydrological data. A.8 Building hydrological services and real-time hydrological networks around the world. A.9 Mapping: current tools used in visualisation of hydrological information. A.10 Ecology and hydrology: ecohydrological structure and sustainable development. A.11 International climate dialogue - political, financial and organizational aspects. A.12 Climate change and natural and anthropogenic ecosystems - observed and projected changes and impacts. A.13 Climate-, weather- and water extreme events and related response measures (organization of early warning systems). A.14 Governance efforts to develop and implement mitigation and adaptation responses in natural and anthropogenic ecosystems.</p>	
<p>Bibliography of literature</p> <p>Fischer H., Kull C., Kiefer T. 2006. Ice core science. PAGES news, 14(1), 1-44, https://doi.org/10.22498/pages.14.1. Intergovernmental Panel on Climate Change, 2018, Special Report: Global Warming of 1.5°C (Summary for Policymakers + selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special Report: the Ocean and Cryosphere in a Changing Climate (Summary for Policymakers + selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special Report: Climate Change and Land (Summary for Policymakers + selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2021, Sixth Assessment Report (Summaries for Policymakers + selected Chapters of WGI) (available at www.ipcc.ch) International Continental Scientific Drilling Program, 2020. ICDP Science Plan 2020-2030., https://www.icdp-online.org/media/icdp-science-plan. Koppers A.A.P., Coggon R., eds. 2020. Exploring Earth by Scientific Ocean Drilling: 2050 Science Framework. 124 pp., https://doi.org/10.6075/J0W66J9H.</p>	
<p>The learning outcomes (for the field of study and specialization)</p> <p>K_W03 (P6U_W, P6S_WG) K_U02 (P6U_U, P6S_UW) K_U08 (P6U_U, P6S_UK)</p>	<p>Knowledge</p> <p>K_W03 (P6U_W, P6S_WG) - the student knows and understands at an advanced level the processes and phenomena occurring in the past and today in the natural environment of the Earth</p>
	<p>Skills</p> <p>K_U02 (P6U_U, P6S_UW) - the student formulates and analyzes basic problems related to changes in the lithosphere, hydrosphere, and atmosphere on a local, regional and global scale K_U08 (P6U_U, P6S_UK) - the student uses scientific language and discuss topics related to global problems of physical geography in English</p>
	<p>Social competence</p>
<p>Contact</p> <p>wojciech.tylmann@ug.edu.pl</p>	