



Subject card

Subject name and code	Environment and Civilization, PG_00059437						
Field of study	Chemical Technology, Civil Engineering, Chemistry, Technical Physics, Environmental Engineering, Electrical Engineering, Power Engineering, Electronics and Telecommunications, Biotechnology, Geodesy and Cartography, Biomedical Engineering, Electronics and Telecommunications, Chemistry in Construction Engineering, Biomedical Engineering, Biomedical Engineering, Nanotechnology, Spatial Development, Engineering and Technologies of Energy Carriers, Corrosion, Nanotechnology, Automation, Robotics and Control Systems, Green Technologies, Green Technologies, Spatial Development, Power Engineering, Power Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	Subject group			Humanistic-social subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Eliza Kulbat				
	Teachers		dr hab. inż. Eliza Kulbat				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30	2.0		18.0		50
Subject objectives	To acquaint students with issues related to the mutual influence of civilization and the environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		The student is able to use knowledge in the field of nature protection, environmental protection and monitoring, the impact of civilization and highly developed technology on the state of the environment, sociology and philosophy to analyze and solve problems.		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		The student is able to explain the need to use the knowledge of the humanities and social sciences in functioning in the social environment and in the analysis and solving of scientific and technical problems.		[SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications		The student has knowledge of nature protection, environmental protection and monitoring, the impact of civilization and highly developed technology on the state of the environment, sociology and philosophy.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
Subject contents	The origins of mankind and the first civilizations. Causes of the fall of great civilizations. Milestones in the development of civilizations. The industrial revolution. Demographic processes in the world - overpopulation vs. resources, the concept of prosperity and well-being, poverty and economic inequality, barriers to development. Globalization - challenges and opportunities, environmental, economic and social risks; irreversibility of globalization. Problems of environmental pollution, reversible and irreversible processes, depletion of raw material resources, energy demand. Will we fight wars over water? International agreements in environmental protection. Climate change - causes, effects, the need for interdisciplinary nature of the study of climate-society interaction. Modern migrations - causes nature, directions, current and future effects. Is there a chance for sustainable development?						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	60.0%	100.0%
Recommended reading	Basic literature	<p>Ferguson N., Cywilizacja. Zachód i reszta. Wyd. Literackie, Warszawa 2013</p> <p>Bauman Z., Globalizacja. Warszawa 2000.</p> <p>Dobrzańska B., Dobrzański G., Kielczowski D., Ochrona środowiska przyrodniczego. PWN, Warszawa 2010</p>	
	Supplementary literature	<p>Smil V., Energia i cywilizacja. Tak tworzy się historia. Editio, 2022</p> <p>Cywilizacje starożytne, pod red. A. Cotterella, Łódź 1990</p> <p>Dzik J., Dzieje życia na Ziemi. PWN, Warszawa 2003.</p> <p>Diamond J., Strzelby, zarazki i stal. Zysk i S-ka, 2020</p> <p>Bendyk E., Zatruta studnia. Rzecz o władzy i wolności. W.A.B., Warszawa 2002</p> <p>Bendyk E., W Polsce, czyli wszędzie. Rzecz o upadku i przyszłości świata. Polityka Spółdzielnia Pracy, Warszawa 2020</p>	
	eResources addresses	<p>Uzupełniające</p> <p>https://klimat.pan.pl - Advisory panel on the climate crisis to the president of the Polish Academy of Sciences</p>	
Example issues/ example questions/ tasks being completed	Construction of sewage systems and sewage treatment plants in cities - historical outline and modern problems.		
	The impact of various methods of energy production on the environment.		
Work placement	Not applicable		