

Subject card

Subject name and code	Why should we worry about air pollution?, PG_00140224						
Field of study	Archaeology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	Bachelor's studies	Subject group					
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Laboratory of the Biogeochemical Cycle of Elements -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Anita Lewandowska				
	Teachers						
Lesson types	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						
	Additional information: Lecture with multimedia presentation, discussion during the lecture, brainstorming.						
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	<p>The increase in air pollution leads not only to global warming or the depletion of the ozone layer, but also negatively affects plants and animals and makes people more susceptible to various types of diseases, including mental ones.</p> <p>The aim of the subject is to analyze the causes and consequences of air pollution and to make students realize that taking action on a global scale is as important as introducing small changes in the behavior of every person. They can reduce air pollution and improve their quality of life in the future.</p>						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
		Knows and understands basic definitions and concepts related to air pollution Knows and understands at an advanced level the causes and consequences of air pollution Knows basic techniques for collecting air samples to determine its composition and quality Can discuss the role of humans in shaping negative changes in air quality Is ready to use the acquired knowledge in discussions with skeptics about the human impact on climate change			[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written [SK4] test/exam - oral or written		

Subject contents	<ul style="list-style-type: none"> • Terminology regarding air quality, legal standards in Poland, Europe and the world. • What is atmospheric pollution? • Origin of pollutants in the atmosphere • Are smog and air pollution one and the same? • Is ozone depletion still a problem for Antarctica? • What role does the atmosphere play in eutrophication and acidification of water bodies? • Could aerosols have a counteracting effect on climate change? • Facts and myths related to global warming and climate change. • Why should we care about the quality of our seas and oceans in terms of air pollution? • Trends in air quality changes in recent decades. • How are the chemical composition and air quality tested? • Who is responsible for examining air quality in Poland? 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	multiple choice test with open questions	51.0%	80.0%
	discussion	51.0%	20.0%
Recommended reading	<p>Basic literature</p> <ol style="list-style-type: none"> 1. Lecture notes 2. Juda-Rezler K., 2006, Impact of air pollution on the environment, Oficyna Wydawnicza Politechniki Warszawskiej, Warsaw. 3. Collective work edited by Józef Kuroпка, Kazimierz Gaj and Izabela Sówka, Current problems in engineering and atmospheric protection, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 20184. Teamwork edited by Katarzyna Judy-Rezler and Barbara Toczko, Fine dust in the atmosphere. Compendium of knowledge about air pollution with suspended dust in Poland, Environmental Monitoring Library, Warsaw, 2016 		
	<p>Supplementary literature</p> <ol style="list-style-type: none"> 1. Piotr Stepnowski, Elżbieta Synak, Beata Szafranek, Zbigniew Kaczyński, Monitoring and analysis of environmental pollution, UG Publishing House, 2010 		
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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