

Subject card

Subject name and code	Economics in environmental protection, PG_00103575						
Field of study	Environmental Protection						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028	
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	3		Language of instruction			Polish	
Semester of study	6		ECTS credits			1.0	
Learning profile	academic		Assessment form			credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Barbara Pawłowska				
	Teachers						
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		2.0		8.0	25
Subject objectives	An economic approach to environmental protection issues. Ability to assess the impacts of human anthropogenic activities and the effectiveness of environmental protection measures. Ability to conduct economic analysis, comparing the costs and benefits of environmental protection projects. Identification of environmental policy instruments and evaluation of their effectiveness and efficiency.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OŚL3_U10] Participates in the analyses and evaluation of alternative solutions to environmental problems and selects methods and instruments to rationally resolve them.	Student participates in analyses and evaluations of alternative solutions to environmental protection problems and selects methods and instruments that allow for rational decision-making based on the principles of sustainable development economics, taking into account the interrelationships between the systems: economy, society, and the natural environment.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[OŚL3_K07] Can think and act in an entrepreneurial manner.	Student is able to think and act entrepreneurially with respect for the principles of sustainable development.	[SK1] oral statement/conversation/discussion
	[OŚL3_W10] Describes the principles of environmental protection based on basic legal regulations and instruments of applying law in environmental protection and from the point of view of economy and management of environmental resources; enumerates general aspects of the economic activity of entities.	Student describes the principles of environmental protection based on basic legal regulations and instruments of law application in environmental protection, as well as from the perspective of economics and environmental resource management; lists the general aspects of economic activities of entities.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[OŚL3_K06] Knows and appreciates the practical application of the acquired knowledge and skills in solving problems.	Student gains the foundation for developing skills during further studies to incorporate an economic approach to environmental issues.	[SK1] oral statement/conversation/discussion
	[OŚL3_K09] is familiar with the general principles of creating and operating forms of individual entrepreneurship in the field of broadly understood environmental protection.	Student is familiar with the general principles of creating and operating forms of individual entrepreneurship in the field of broadly understood environmental protection, taking into account the concepts of sustainable development and social responsibility.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[OŚL3_U09] Prepares in Polish/English a short description of research, observation or problem task carried out during classes using appropriate scientific terminology.	Student prepares a brief description in Polish of performing a problem-solving task using appropriate scientific terminology from the field of sustainable development economics.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
Subject contents	Topic I: Overview of Contemporary Environmental Issues and the Interrelationships between Environment, Society, and Economy (4 hours) Topic II: The Natural Environment as the Basis of Human Existence (2 hours) • Social Aspects of Environmental Utilization • Legal Aspects of Environmental Utilization • Economic Aspects of Environmental Utilization Topic III: Management as a Process of Rational Utilization of Matter and Energy (3 hours) • Physical Dimension of Management Processes • Resources and Production Factors • The Role of Energy in Management Processes Topic IV: Environmental Issues in Economic Theory (2 hours) • Ecologization of the Economy and Economization of the Environment • Market Efficiency under Perfect Competition and Market Failures with External Costs and Public Goods • Correcting Externalities: Pigovian Tax and Pareto Efficiency, Coase Theorem • Process of Internalizing Externalities Topic V: Fundamentals of Environmental Policy (4 hours) • The Essence and Concept of Environmental Policy • Sustainable Development as the Basis of Environmental Policy • Actors of Environmental Policy • Goals, Principles, and Directions of Policy • Policy Instruments		
Prerequisites and co-requisites	Awareness of current issues related to the socio-economic life of the country.		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final Test	50.0%	100.0%
Recommended reading	Basic literature	1. Wprowadzenie do zrównoważonego rozwoju. Podręcznik akademicki, pod. red. A. Drosik, D. Heidrich, M. Ratajczak, Wyd. Naukowe Scholar, Warszawa 2022, https://zr.humandoc.pl/wp-content/uploads/2019/10/2022_Wprowadzenie-do-zrownowazonego-rozwoju-epdf_compressed.pdf 2. Klimatyczne ABC, pod red. M. Budziszewskiej, A. Kardaś, Z. Bohdanowicza, Wyd. UW, Warszawa 2021, https://www.wuw.pl/product-pol-13475-Klimatyczne-ABC-Interdyscyplinarne-podstawy-wspolczesnej-wiedzy-o-zmianie-klimatu-PDF.html 3. Gospodarka a środowisko i ekologia, pod red. K. Małachowskiego, Wydawnictwa Fachowe CeDeWu, Warszawa 2007; 4. B. Pawłowska: Zrównoważony rozwój transportu na tle współczesnych procesów społeczno- gospodarczych, Wyd. UG, Gdańsk 2013, rozdziały 1,2,3.	
	Supplementary literature	1. Zeroemisyjna Polska 2050 https://www.wwf.pl/sites/default/files/2020-09/0%20raport_zeroemisyjna_2050%20full%20FINAL.pdf 2. Zielona gospodarka czyli green economy, https://włączoszczedzenie.pl/zielona-gospodarka-czyli-green-economy/#h-zazielenienie-gospodarki 3. https://włączoszczedzenie.pl/biblioteka-ekologa/ 4. https://www.gridw.pl/publikacje	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Ecological footprint, SDGs		
Work placement	Not applicable		

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