University of Gdańsk

Subject card

Subject name and code	Economy and Environment, PG_00201582						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
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		2.0		
Learning profile	academic		Assessment form		exam		
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	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		4.0		16.0	50
Subject objectives	Upon completing the course, students gain the capability to analyze economic processes through the lens of protecting and utilizing natural capital efficiently. They grasp the concept of sustainable development and can identify tools that help the economy adopt this developmental approach. They also consider social costs and benefits in their daily decision-making.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[EKONL3_K02] is aware of the level of knowledge in the field of economics and understands the need to deepen and update this knowledge throughout life	The student is aware of their level of knowledge in the area of sustainable development economics and understands the necessity of continually deepening and updating this knowledge throughout their life.	[SK1] oral statement/conversation/ discussion [SK5] implementation of a problem task
[EKONL3_W05] has a knowledge of man as a subject who creates social structures and the principles of their functioning and of his action in these structures, knows well the motives of human economic decision-making	The student possesses advanced knowledge about humans as creators of social structures and the principles of their functioning, as well as their relationships with the environment. They are well-versed in the motives behind human economic decision-making regarding the use of natural capital.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task
[EKONL3_W03] knows the relations between economic agents and social organisations operating in the national, international and intercultural arenas	The student has advanced knowledge of the relationships between economic entities, social organizations, and the natural environment in a global context.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task
[EKONL3_K06] is willing to be guided in his professional life by business ethics and corporate social responsibility, to respect others and to be loyal to his employer	The student is prepared to adhere to business ethics and corporate social responsibility in their professional life, with a commitment to respecting the natural environment.	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work
[EKONL3_U15] is able to independently supplement and improve his acquired knowledge and skills in the field of economics, is open to new concepts and solutions, and demonstrates a willingness to engage in lifelong learning and to cooperate and exchange knowledge with other participants in the learning process.	The student is capable of independently enhancing and refining their knowledge and skills in the field of sustainable development economics. They are open to new ideas and techniques, inclined to learn through various methods, and willing to interact with other participants in the learning process to address identified issues.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written [SU5] implementation of a problem task
[EKONL3_U12] can independently plan and implement own lifelong learning	The student has the ability to independently plan and carry out lifelong learning, select appropriate literature, and formulate conclusions based on it.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[EKONL3_W01] has advanced knowledge of the nature of social sciences, their place in the system of sciences, knows the role of economic sciences in this system and uses universal economic terminology	The student possesses advanced knowledge in the field of social sciences and understands the role of economic sciences within this framework, including heterodox currents. They are also proficient in using universal economic terminology.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

Subject contents	Topic I: An overview of contemporary ecological issues, the interrelationships between the environment and the economy (4 hours); Topic II: The natural environment as the basis of human existence (2 hours); • Social aspects of environmental use; • Legal aspects of environmental use; • Economic aspects of environmental use; Topic III: Management as a process of rational use of matter and energy (4 hours); • The physical dimension of management processes; • Resources and factors of production; • The role of energy in management processes; Topic IV: Material bases of consumption processes (2 hours) • Human needs and ways of satisfying them; • Trends and consequences of contemporary consumption development; Topic V: Environmental threats caused by anthropogenic human activity (4 hours); • Global climate changes; • Destruction of the ozone layer; • Deforestation of the Earth's surface; • Pollution of the hydrosphere; • Degradation of the landscape and destruction of biodiversity; Topic VI: The impact of economic sectors and forms of management on the natural environment (4 hours); Topic VII: Ecological issues in economic theory (2 hours); • Ecologization of the economy and economization of the environment; • Market efficiency under perfect competition and its failure in the presence of external costs and public goods • Correcting external effects: Pigou tax and Pareto equilibrium, Coase's theorem • The process of internalizing external effects Topic VIII: Economic accounting in environmental protection (4 hours); • Concept and characteristics of economic accounting in environmental protection; • Environmental losses/benefits; • Methods for assessing ecological losses; Topic IX: Foundations of ecological policy (4 hours); • The essence and concept of ecological policy; • Sustainable development as the basis of ecological policy; • Actors of ecological policy; • Goals, principles, and directions of the policy; • Policy instruments; To further develop the concepts discussed during the lectures, students have the opportunity to participate in consultations.
Prerequisites and co-requisites	Basic knowledge of microeconomics and macroeconomics.
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
For groups with fewer than 100 people, a project will be assigned. For groups larger than 100 people, an examination test will be administered.	50.0%	80.0%
Completion of a problem-based task	50.0%	20.0%

Recommended reading	Basic literature	1. Wprowadzenie do zrównoważonego rozwoju, pod red. A. Drosich, D. Heidrich, M. Ratajczak, Wydawnictwo 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 2010; 4. B. Pawłowska: Zrównoważony rozwój transportu na tle współczesnych procesów społeczno-gospodarczych, Wyd. UG, Gdańsk 2013.
	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://wlaczoszczedzanie.pl/zielona-gospodarka-czyli-green-economy/#h-zazielenienie-gospodarki 3. https://wlaczoszczedzanie.pl/biblioteka-ekologa/ 4. https://www.gridw.pl/publikacje
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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