University of Gdańsk

Subject card

Subject name and code	ESG in logistics, PG_00198993						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group 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		3.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Rafał Śpiewak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	15.0	0.0	45
	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	45		0.0		30.0	75
Subject objectives	Familiarizing students with the principles of sustainable development and ESG (Environmental, Social, Governance) standards in the context of logistics and supply chain management. Students will learn how to integrate environmental, social and corporate governance objectives with logistics processes and will learn to identify risks and opportunities related to the implementation of sustainable logistics strategies. The subject develops skills in assessing the impact of logistics activities on the environment and society, and also prepares for ESG reporting and cooperation with stakeholders within sustainable supply chains.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	The student is able to identify and analyse decision-making dilemmas in logistics related to the implementation of ESG principles (e.g. conflict of economic and environmental interests), evaluate various action options and formulate recommendations in line with the principles of sustainable development and social responsibility.	[SK2] presentation/project/paper/ report [SK3] text preparation/written work
[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 is able to analyze the impact of logistics decisions on the social, environmental and economic environment, taking into account the motivations of supply chain participants and the functioning of social and organizational structures in accordance with ESG principles.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[EKONL3_W11] knows the general principles for the creation and development of forms of individual entrepreneurship, using knowledge of economics, finance and management sciences	The student is able to assess the possibilities of implementing ESG principles as an element of competitive advantage in logistics activities and design basic assumptions of logistics projects consistent with the concept of sustainable development, taking into account economic, environmental and social aspects.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[EKONL3_U12] can independently plan and implement own lifelong learning	The student is able to independently search, select and update knowledge in the field of ESG in logistics, using Polish and English scientific and industry sources as well as strategic and regulatory documents, developing competences essential for sustainable development and changing professional standards.	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
[EKONL3_U14] is ble to set priorities, plan and organize the implementation of individual and team tasks, as well as monitor and evaluate progress in achieving set goals.	The student is able to plan and implement logistics tasks taking into account priorities resulting from ESG principles, select appropriate actions in the environmental, social and corporate governance areas, as well as monitor their effectiveness and impact on the functioning of the supply chain.	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
[EKONL3_W04] knows the types of economic and social ties and the regularities governing them	The student knows the conditions and mechanisms that shape economic and social ties in supply chains, including the relationships between logistics participants and the external environment, in accordance with the principles of sustainable development and the ESG framework.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[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 ready to make logistics decisions in line with the principles of business ethics and social responsibility, respect the rights of supply chain stakeholders and promote actions based on ESG values in the workplace and in professional relationships.	[SK2] presentation/project/paper/ report [SK4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Introduction to ESG definitions, origins and importance of the concept in logistics.
Sustainability and the supply chain connections and impact of ESG on logistics.
Carbon footprint in transport methods of reducing CO emissions and route optimization.
Eco-friendly logistics solutions electric vehicles, renewable energy, green warehouses.
Circular economy (CE) packaging recovery, recycling, waste minimization.
Social dimension of ESG working conditions, employment ethics, relations with local communities.
Supply chain risk management compliance with standards, ethics and transparency of operations.
Governance corporate governance regulatory compliance, anti-corruption, cybersecurity.
ESG reporting indicators, reporting standards, communication with stakeholders.
Benefits of implementing ESG competitive advantages, savings, better image.
Challenges of implementing ESG in logistics financial, regulatory and technological barriers.
The future of ESG in logistics new trends, technologies and EU requirements (CSRD, EU Taxonomy).

Any doubts regarding the issues discussed during classes can be discussed during consultations.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>none</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>final test - 60%</td><td>51.0%</td><td>60.0%</td></tr>
<tr><td>presentation - 20%</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>activity during classes - 20%</td><td>51.0%</td><td>20.0%</td></tr>
</table>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Liu, D., Sun, N. & Zhu, X. ESG ratings empower high-quality development of logistics enterprises through digital transformation and green innovation. Sci Rep 15, 22861 (2025). https://doi.org/10.1038/s41598-025-06029-2

D. B. Grant, A. Trautrims, C. Yew Wong (2017) Sustainable Logistics and Supply Chain Management, Kogan Page

A. Arumugam (2024) Mastering ESG & Sustainability: Sustainable Business: A Comprehensive Guide to ESG and Corporate Responsibility, Independently published</td></tr>
<tr><td>Supplementary literature</td><td>Artur, B., & Le Viet-Błaszczyk, M. (2024). The role of social media marketing of ESG in warehouse logistics. Zeszyty Naukowe Politechniki Śląskiej. Organizacja i Zarządzanie, (198).</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>What is logistics doing to reduce its carbon footprint in line with ESG principles?</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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