University of Gdańsk

Subject card

Subject name and code	Ecologistics , PG_00198988		
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	5	ECTS credits	2.0
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	0.0	15.0	0.0	15.0	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	0.0	20.0	50

Subject objectives	The aim of the course is to familiarize students with the essence of ecology as a field of logistics focused on sustainable development, taking into account legal, social, environmental and economic aspects. Students will acquire the knowledge and skills necessary to design, implement and evaluate waste management systems and reverse logistics, with particular emphasis on recycling, ecodesign and logistics in municipal waste management.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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 cooperation and relations between economic entities and social organizations at the national, international and intercultural levels, with particular emphasis on their role and impact on ecological processes and sustainable logistics.	[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 demonstrates readiness to apply the principles of business ethics and social responsibility in professional practice related to ecology, showing respect for other participants in logistics processes and loyalty to the employer and the interests of the organization.	[SK6] demonstration of practical skills [SK8] observation of student's independent or team work
[EKONL3_U09] is able to prepare written work, in Polish and in a foreign language, on specific economic and social issues, using specialist terminology, theoretical and methodological approaches, principles of collecting data from various sources, their description and interpretation, making inferences based on scientific literature and factual data, and making international comparisons	The student is able to independently prepare written works in Polish and a foreign language on the issues of ecology, using specialist terminology and appropriate theoretical and methodological approaches. Is able to effectively collect data from various sources, describe them, interpret them, formulate conclusions based on scientific literature and empirical data, and make international comparisons in the context of sustainable logistics.	[SU6] demonstration of practical skills [SU8] observation of student's independent or team 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 has advanced knowledge of the role of man as a participant and creator of social structures and the mechanisms of his action in these structures, with particular emphasis on the motives for making economic decisions affecting ecological processes and sustainable logistics.	[SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task
[EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods	The student is able to independently observe, interpret and analyse economic and social phenomena and processes related to ecology, using appropriate scientific methods and analytical tools, which allows for making good decisions in the area of sustainable logistics.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
[EKONL3_U12] can independently plan and implement own lifelong learning	The student is able to independently plan, organize and implement the learning process related to ecology issues, actively seeking new knowledge and skills necessary for professional development and effective implementation of the principles of sustainable logistics and environmental protection.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
[EKONL3_W10] knows and understands concepts and principles of industrial property, intellectual property and copyright law	The student knows and understands the basic concepts and principles of industrial, intellectual and copyright protection, is able to identify aspects of these regulations in the context of ecology and apply them in practice when developing innovative logistics solutions, taking into account legal aspects.	[SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task

Course outcome	Subject outcome	Method of verification
[EKONL3_U05] uses normative systems (legal, professional, ethical) to solve a specific economic or social task	The student is able to apply applicable legal regulations, professional standards and ethical principles in the analysis and solution of problems related to ecology, in particular in the area of waste management and environmental logistics, ensuring compliance of activities with regulatory requirements and the principles of sustainable development.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	The student understands the importance of economic knowledge in the analysis and solution of economic problems related to ecology and is able to use the opinions of experts and specialists in situations requiring substantive support or specialist knowledge.	[SK6] demonstration of practical skills [SK8] observation of student's independent or team work

Subject contents

Designing a Waste Management Logistics System

Analysis of Reverse Logistics Chain Units

Ecodesign Principles

Case Studies of Design for Recycling

Methods of Designing Packaging and Products Oriented to Recycling

Eco-balancing

Any doubts regarding the issues discussed during classes can be discussed during consultations.

Prerequisites and co-requisites

knowledge of the basics of logistics

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
activity during classes - 20%, solving problem tasks - 80%	51.0%	100.0%

Recommended reading

Basic literature	A. McKinnon, M. Browne, A. Whiteing, M. Piecyk (2015) Green Logistics: Improving the Environmental Sustainability of Logistics, Kogan Page
Supplementary literature	Sarah F. Slaper, Tanya J. Hall (2013) Sustainable Logistics and Supply Chains: Innovations and Environmental Challenges, Wiley
eResources addresses	

Example issues/ example questions/ tasks being completed

Create an eco-friendly packaging design for a food product

Work placement

Not applicable

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