

Subject card

Subject name and code	Ecologistics - classes, PG_00169976						
Field of study	Economics						
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 Optional subject group		
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	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		5.0		30.0	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_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
	[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_W10] knows and understands the basic 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
	[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_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_W05] has advanced 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_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

	Course outcome	Subject outcome	Method of verification
	[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_W03] has advanced knowledge of 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
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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