

International University of Logistics and Transport in Wrocław

Leading								
Item	Ecologistics							
Module	W	ECTS points	5	Reference number of the study program	L/2024/SPS/S/P - L/2024/SPS/N/P			
Direction		Specialty			Academic year			
LOGISTICS		Retail and distribution networks / Transport safety			updated syllabus			
Term		III		Year of study		II		
Form of studies	Stationary				Part-time			
Form of classes	Lecture	Exercises	Laboratories	Design	Lecture	Exercises	Laboratories	Design
Number of hours	20	20		20	18	18		18
TOGETHER	60				54			
Objective of the course	The aim of the "Ecological Logistics" course is to provide students with knowledge in the field of sustainable functioning of logistics systems, including environmental protection, green supply chains, circular economy, ecological means of transport, waste management, as well as standards and regulations, enabling them to analyse the impact of logistics activities on the environment and make decisions in line with the principles of ecological							
Minimum knowledge required from the student before starting classes								
Basic knowledge of logistics and ecology.								
Recommended literature to study before starting classes								
Ramya A. 2023: Fundamentals of Information Technology, Wydawnictwo MJP, Londyn								
SUBJECT-SPECIFIC LEARNING OUTCOMES (SLE)					KEU	EVALUATION METHODS		
	CODE	FORM			CODE	CODE	FORM	
KNOWLEDGE	W1	Possesses knowledge in the field of logistics, covering economic, production, service and environmental aspects, taking into account the efficiency of operations, the application of technical and quality standards and the principles of sustainable development in logistics and transport.			K1_W04_L_P	M04	Written exam in the form of open tasks	
	W2	Knows and understands the mechanisms of supply, production, and distribution logistics in the context of managing logistics chains, including sustainable, green, and short chains. Can shape relationships with suppliers and buyers within supply networks that take into account ecological aspects and environmental regulations.			K1_W06_L_P	M04	Written exam in the form of open tasks	
	W3	Possesses knowledge of economic, social, technical and legal issues related to the pursued specialization of education, with particular emphasis on environmental protection, ecology, green supply chains, circular economy, ecological means of transport, alternative fuels, waste management and certification and environmental standards in logistics and transport.			K1_W08_L_P	M04	Written exam in the form of open tasks	
SKILLS	U01	The graduate can utilize basic mathematical methods (including probabilistic ones) to describe logistics problems, including those related to assessing the ecological efficiency of logistics processes. The graduate can apply modern computer and digital technologies to plan, forecast, analyze, and evaluate logistics processes, systems, and projects, taking into account environmental and sustainable development aspects.			K1_U04_L_P	MO8	Written test in the form of open tasks	
	U02	Is able to formulate and solve problems related to the organisation and management of logistics activities, taking into account non-technical aspects, including environmental, economic, legal and social ones.			K1_U05_L_P	MO10	Passing the project	
	U03	Is able to design logistics systems and processes (supply, production, distribution), taking into account environmental, economic and legal aspects, and apply the concepts of ecology, green supply chains and the circular economy.			K1_U12_L_P	MO8	Written test in the form of open tasks	
SOCIAL COMPETENCES	K01	Is ready to think and act in an entrepreneurial manner and to create and organize logistical and economic projects taking into account environmental aspects and sustainable development.			K1_K03_L_P	MO15	Assessment of activity during classes	
	Lectures	Logistics systems and environmental protection, Ecologistics - the essence, Green supply chains, Circular economy in logistics, Ecological means of transport and alternative fuels, Waste management in logistics, Certification and environmental standards in transport and logistics, EU policies and regulations in the field of ecologistics						

Subject content	Exercises	The role of logistics systems in environmental protection, Ecologistics – definitions, objectives and areas of application, Green supply chains – concepts and theoretical challenges, Circular economy in logistics – theoretical foundations and models, Ecological means of transport – classification and theoretical potential, Alternative fuels – theory and impact on logistics, Waste management in logistics – theoretical models and strategies, Environmental certification in transport and logistics, Environmental standards and the strategy of a logistics company, EU policies and regulations in ecologistics – implications for logistics systems
	Design	Development of a strategy for greening logistics processes in a selected enterprise.
Teaching methods	CODE	FORM
	MD2	Informative lecture using multimedia techniques
	MD16	Laboratory exercises – solving tasks and problems
Compulsory literature	1	Randal E. 2020: Computer Systems: A Programmer's Perspective 3/ed, Wydawnictwo Gamet Publishing, Londyn
	2	Frakt. 2020: How Economics Works, Wydawnictwo Dorling Kindersley Limited, Londyn
Additional literature	1	Christopher M. 2023: Logistics and Supply Chain Management, Wydawnictwo Financial Times Prent. Londyn
Conditions for passing the course		
To pass the Ecologistics course, you must pass the lecture (M04 Written Exam with Open-Ended Questions or MO4 Written Exam with Open-Ended Questions), the tutorials (MO8 Written Test with Open-Ended Questions), and the project (MO10). Additionally, a student's participation in the classes will be considered. The grade is calculated according to the following formula: Lecture (W): 30% of the final grade plus Tutorials (C): 40% of the final grade + Project (P): 30% of the final grade.		