

Subject card

Subject name and code	AI in logistics , PG_00198992						
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			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Logistics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Dariusz Weiland				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		2.0		8.0	25
Subject objectives	<p>The aim of the course is to familiarize students with the possibilities of using artificial intelligence tools and methods in modern logistics and supply chain management. The course combines an interdisciplinary approach - combining knowledge from the field of economics, logistics and new technologies.</p> <p>As part of the course, the student will:</p> <ul style="list-style-type: none"> understand the role and importance of artificial intelligence in the optimization of logistics processes (e.g. demand forecasting, warehousing automation, transport management), learn about basic AI tools (e.g. machine learning, neural networks, recommendation systems) and ways of using them in logistics, acquire the skills to identify areas in logistics where AI implementation can bring added value, analyze real examples of AI use in the activities of logistics and trade companies (e.g. Amazon, DHL, InPost, Allegro). <p>The course also develops competences related to the critical assessment of risks, ethical aspects and barriers in the implementation of AI technology in the logistics sector.</p>						

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 appreciates the importance of interdisciplinary economic and technological knowledge in the analysis and solution of logistics problems using AI.	[SK1] oral statement/conversation/discussion
	[EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context	Student uses knowledge of economics and management to resolve dilemmas related to the implementation of AI in logistics.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[EKONL3_U01] can correctly interpret economic and social phenomena and apply knowledge of economics, finance and management sciences to explain economic phenomena	The student is able to analyze and interpret phenomena related to the use of AI in logistics using knowledge of economics and management.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[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.	Student is ready to independently develop knowledge of AI, learn new technologies, and interact with experts and practitioners.	[SU1] oral statement/conversation/discussion
	[EKONL3_W04] knows the types of economic and social ties and the regularities governing them	The student knows the types of connections between participants in digital supply chains and the principles governing them in the context of the use of AI technologies.	[SW4] test/exam - oral or written
	[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 understands the importance of humans as decision-makers in automated logistics systems and the impact of AI on their behavior and motivations.	[SW4] test/exam - oral or written
	[EKONL3_W06] has an advanced knowledge of selected methods and tools, including statistical and econometric techniques, for describing economic agents and structures as well as social institutions and the processes taking place in them	The student knows the methods and tools (including statistical and econometric ones) used in the analysis of logistics data and the implementation of AI in logistics.	[SW4] test/exam - oral or written
	[EKONL3_W10] knows and understands concepts and principles of industrial property, intellectual property and copyright law	The student knows the basic principles of intellectual property protection in the context of the development and implementation of AI tools in the logistics sector.	[SW4] test/exam - oral or written
	[EKONL3_W08] has an advanced knowledge of the processes of changing elements, enterprises and whole structures of economic organisations, as well as the processes of changing social institutions, knows what their causes, course, scale, consequences are and what the influence of external stakeholders is on them	Student has knowledge of the impact of artificial intelligence on changes in logistics structures and processes in enterprises and organizations.	[SW4] test/exam - oral or written
	[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	The student is able to obtain and use data to analyze the effectiveness of AI application in logistics processes.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written

