

**Subject card**

<b>Subject name and code</b>	Supply chain management in a low-carbon economy , PG_00199003						
<b>Field of study</b>	Economics						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			exam		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Dorota Książkiewicz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	15.0	0.0	10.0	0.0	40
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	40		0.0		10.0	50
<b>Subject objectives</b>	The course aims to familiarize students with the key aspects of supply chain management in the context of a low-carbon economy. It is designed to develop knowledge and skills related to the integration of sustainable practices, reduction of greenhouse gas emissions, and the implementation of innovative solutions within supply chains that support both ecological and economic goals of modern enterprises.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONL3_U07] is able to participate in analyses and evaluations of alternative solutions to economic and social problems and to choose the methods and instruments to resolve them rationally	is able to participate in analyses and evaluations of alternative solutions related to ecological and economic challenges in supply chain management, and to select appropriate methods and tools that enable rational decision-making supporting emission reduction and sustainable development.	[SU2] presentation/project/paper/report
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	correctly identifies, diagnoses, and resolves dilemmas and various solution options related to professional practice, with particular emphasis on challenges associated with implementing low-carbon and sustainable practices in supply chain management.	[SK2] presentation/project/paper/report
	[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	Has knowledge of the processes of change in elements, enterprises, and entire structures of economic organizations, as well as changes in social institutions, with particular emphasis on aspects related to the transition to a low-carbon economy. Understands the causes, course, scale, and consequences of these changes, and is aware of the influence of external stakeholders on these processes.	[SW2] presentation/project/paper/report
	[EKONL3_K03] participates in the preparation of economic and social projects, being able to reconcile legal, economic, ecological, political and social requirements	participates in the preparation of socio-economic projects in the field of supply chain management, being able to reconcile legal, economic, ecological, political, and social requirements, with particular emphasis on the goals of the low-carbon economy.	[SK2] presentation/project/paper/report
	[EKONL3_W03] knows the relations between economic agents and social organisations operating in the national, international and intercultural arenas	has advanced knowledge of the relationships between economic entities and social organizations operating in the national, international, and intercultural environment of supply chains, with particular emphasis on sustainable development and the low-carbon economy.	[SW2] presentation/project/paper/report
	[EKONL3_U04] can predict and forecast the course of economic and social processes and phenomena	is able to anticipate the course of economic and social processes and phenomena occurring in supply chains, especially in the context of the transition towards a low-carbon economy, and to forecast their impacts on enterprises and the environment.	[SU2] presentation/project/paper/report
	Subject contents	<p>1. The specifics of modern supply chains management and optimization  2. Introduction to the low-carbon economy and its significance for supply chain management  3. Sources of greenhouse gas emissions in the supply chain and methods of their measurement  4. Emission reduction strategies in logistics and transportation  5. Sustainable inventory and warehouse management in the context of a low-carbon economy  6. Technologies and innovations supporting low-carbon supply chains  7. The role of partnerships and cooperation in building low-carbon supply chains  8. The future of supply chain management in the context of global ecological transformation</p> <p>Students have the opportunity to receive additional substantive assistance during consultations with the course instructor.</p>	
Prerequisites and co-requisites	Basic knowledge of supply chain management and logistics processes.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation	51.0%	100.0%

Recommended reading	Basic literature	Robert Stanisławski, Andrzej Szymonik, Artur Błaszczak : Nowoczesna koncepcja ekologii. Difin 2021  Zrównoważona logistyka. Praca zbiorowa pod red. K. Kolasińskiej-Morawskiej i M. Ziółko, CeDeWu 2023  D. Książkiewicz: Rozwój transportu, spedycji i logistyki w dobie cyfryzacji i globalnej gospodarki, Wydawnictwo UG 2021. Adam Koliński, Michał Adamczak, Innowacyjne technologie w logistyce - koncepcja zrównoważonego rozwoju, e-book Wydawnictwo Spatium, 2024
	Supplementary literature	Krzysztof Małachowski, Gospodarka a środowisko i ekologia. CeDeWu 2023
	eResources addresses	
Example issues/ example questions/ tasks being completed	What is the concept of a low-emission supply chain and what are its key elements? What are the main sources of CO emissions in traditional supply chains? Provide examples from different sectors.	
Work placement	Not applicable	

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