University of Gdańsk

Subject card

Subject name and code	Supply Chains: Risk, Disruptions and Adaptation, PG_00202468		
Field of study	Economics, International Economic Relations, International Business, Logistics and Mobility		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	Master’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	2	Language of instruction	English English
Semester of study	3	ECTS credits	5.0
Learning profile	academic	Assessment form	credit

Conducting unit		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Dorota Książkiewicz
	Teachers	dr Dorota Książkiewicz

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	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	95.0	125

Subject objectives	The aim of the course is to provide students with knowledge about the functioning of contemporary global supply chains in conditions of increasing economic, geopolitical, and technological uncertainty. The course is intended to develop students ability to identify risks, analyze disruptions, and evaluate adaptation strategies applied by enterprises and logistics operators.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LMMU2_W04] knows different types of economic and social ties and regularities governing them; has knowledge of ties between enterprises which require logistics support or provide logistics services	Knows the types of economic relationships in supply chains and the rules governing them; has knowledge of relationships between enterprises that require logistics support or provide logistics services.	[SW2] presentation/project/paper/ report
	[LMMU2_W08] has a knowledge of main and logistics processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them	Has knowledge of logistics processes occurring in supply chains and at the interface with related areas; knows methods for studying the regularities governing changes in the environment, taking into account the influence of external stakeholders on them.	[SW2] presentation/project/paper/ report
	[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	Is able to use theoretical knowledge and obtain data to analyze processes of risk analysis and assessment in supply chains, and to analyze these phenomena using methods developed in economics, finance, and management sciences.	[SU2] presentation/project/paper/ report
	[MSGL3_U04] uses the acquired theoretical knowledge in economics to analyse and evaluate the operation of economic entities on the international market, with particular emphasis on the European Union market	Uses theoretical knowledge in economics to analyze and evaluate the functioning of entities in logistics processes, with particular emphasis on risk factors affecting these processes.	[SU2] presentation/project/paper/ report
	[MSGL3_U02] can assess economic and social phenomena occurring in an open economy, interpret necessary statistical data and economic indicators, as well as forecast economic phenomena and processes, using standard methods and tools applied in economic sciences	Is able to assess economic and social phenomena occurring in the environment of logistics companies, interpret the necessary statistical data and economic indicators in this regard, and forecast phenomena and processes affecting the efficiency and safety of logistics processes.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[IBL3_W07] knows and understands fundamental dilemmas of contemporary world economy; understands the necessity of sustainable development and corporate social responsibility	Understands the basic dilemmas related to risk in the modern economy and logistics; recognizes the necessity of implementing sustainable development and corporate social responsibility.	[SW2] presentation/project/paper/ report
	[IBL3_W04] has a structured knowledge of the world economy, international economic and financial processes and their role in shaping the international business environment	Has knowledge of the functioning of global supply chains and their importance for the global economy.	[SW2] presentation/project/paper/ report
	[MSGMU2_U01] can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, using the acquired knowledge in economics, finance and international economic relations	Is able to creatively interpret and explain phenomena occurring in the environment and within supply chains themselves, using knowledge of economics, finance, and international economic relations.	[SU2] presentation/project/paper/ report
	[EKONL3_W04] knows the types of economic and social ties and the regularities governing them	Understands the types of economic and social relations in supply chains and the principles governing them.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[EKONMU2_U05] uses (legal, professional, ethical) normative systems and can effectively solve complex economic and social problems using them	Uses normative systems (legal, professional, and ethical) and is able to use them to solve problems related to risk in global supply chains.	[SU2] presentation/project/paper/ report
	[MSGMU2_U05] can apply the rules and standards of business activity in order to solve complex and atypical problems arising from international economic cooperation	Is able to apply rules and standards relating to business activity in order to solve problems related to the identification and assessment of risk in the international environment.	[SU2] presentation/project/paper/ report

Course outcome	Subject outcome	Method of verification
[IBMU2_U03] can accurately select and use sources of information on international business, evaluate, critically analyse and creatively interpret them, and can present them in an innovative way	Is able to appropriately select and use sources of information on risk in international business, evaluate them, critically analyze and creatively interpret them, and present them in an innovative way.	[SU2] 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 logistics processes and economic, social, and geopolitical phenomena, and to forecast these phenomena.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[IBMU2_K03] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; assesses risks and threats and finds ways of counteracting their effects	Is ready to think and act in an entrepreneurial way; adapts to new situations and conditions; takes on the challenges of analyzing and assessing risk and finds ways to counteract its effects.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[MSGL3_W04] has an advanced knowledge of different types and essential elements of the structures of economic entities and organisations, and public institutions	Has advanced knowledge of key elements of the structures of economic entities and organizations, as well as public institutions that influence risk assessment in supply chains.	[SW2] presentation/project/paper/ report
[LMMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects	Demonstrates readiness to think and act in an entrepreneurial way; is able to assess risks and threats to the functioning of supply chains and find ways to counteract their effects.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[EKONMU2_U02] can use acquired knowledge to describe and analyse the causes and course of economic and social processes and phenomena, and can formulate his/her own opinions and critically select data and analysis methods based on the achievements of economic and social sciences	Is able to use acquired knowledge to analyze the course of logistics processes, and can formulate their own opinions and critically select data and analytical methods based on the body of research in economics and social sciences.	[SU2] presentation/project/paper/ report
[IBL3_K04] is ready to think and act in an entrepreneurial manner	Is ready for creative thinking and action in order to assess risk and manage risk in logistics processes.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[IBMU2_W05] knows and understands in depth the dilemmas of international business related to globalisation, integration, internationalization and sustainable development	The student has an in-depth understanding of the dilemmas of international business related to globalization, economic integration, internationalization of enterprises, and sustainable development, particularly in the context of global supply chains and logistics.	[SW2] presentation/project/paper/ report
[MSGMU2_W04] has an in-depth knowledge of different types and elements of economic structures and institutions, including institutions, organisations and economic entities; understands the causes, course, scale and consequences of changes occurring in them, as well as relations between them on a national, international and intercultural scale; knows the theories explaining relations among them	Understands the causes, course, scale, and consequences of changes occurring in the environment of logistics processes; knows theories explaining the relationships between them.	[SW2] presentation/project/paper/ report
[EKONMU2_W04] has an in-depth knowledge of different types of economic and social ties and regularities governing them; has an in-depth knowledge of economic and financial ties between enterprises	Understands different types of economic and social relations accompanying international supply chains and the regularities occurring between them; has in-depth knowledge of economic and financial ties linking enterprises.	[SW2] presentation/project/paper/ report

<table>
<tr><td>Subject contents</td><td colspan="2">Introduction to supply chain management and the concept of risk
Structure of global supply chains and their vulnerability to disruptions
Sources of risk in supply chains: economic, environmental, operational, and geopolitical
Identification and classification of disruptions in logistics systems
Methods of risk assessment and measurement in supply chains
Modeling uncertainty and scenario analysis in logistics
Financial risk in global supply chains
Operational risk management and supply continuity
Supply chain resilience
Adaptive strategies in conditions of disruptions and crises
The role of digital technologies in risk monitoring and reduction
Sustainable development and ESG in supply chain risk management
Case studies: global supply chain crises (COVID-19, wars, disasters)
The future of supply chains: uncertainty, adaptation, and new management models</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="2">Fundamentals of global logistics and supplly chain operations</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>in-class discusssion</td><td>0.0%</td><td>20.0%</td></tr><tr><td>presentation</td><td>0.0%</td><td>80.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Khojasteh, Y., Xu, H., & Zolfaghari, S. (Eds.). (2022). Supply Chain Risk Mitigation: Strategies, Methods and Applications. Springer.

Ivanov, D. (2017). Structural Dynamics and Resilience in Supply Chain Risk Management. Springer.</td></tr>
<tr><td>Supplementary literature</td><td>Hermoso-Orzáez, M. J., & Garzón-Moreno, J. (2022). Risk management methodology in the supply chain: a case study applied. Annals of Operations Research, 313, 10511075.

Allianz Risk Barometer

World Economic Forum & Kearney. (2026). Global Value Chains Outlook 2026.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">What types of risk factors occur in global supply chains?

How does the process of risk identification and assessment in a supply chain proceed?

What are the methods of risk management in logistics processes?</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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