International University of Logistics and Transport in Wrocław

Leading					
Item	**Safety management in intermodal transport**				
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	**Transport safety**	
Term	V	**Year of study** III

Form of studies	**Stationary**				**Part-time**			
Form of classes	**Lecture**	**Exercises**	**Laboratories**	**Design**	**Lecture**	**Exercises**	**Laboratories**	**Design**
Number of hours	**16**	**14**	**12**		**12**	**12**	**9**	
TOGETHER	**42**				**33**			

Objective of the course	The aim of this course is to familiarize students with the principles of safety management in intermodal transport, including hazard identification, risk analysis, and the application of methods and tools that support cargo security and the continuity of transport processes. This course develops skills in assessing transport systems, interpreting legal regulations, and utilizing modern technologies to ensure safety in complex transport chains.

Minimum knowledge required from the student before starting classes

Basic knowledge of economics, logistics and business operations, as well as elementary knowledge of data analysis and economic processes.

Recommended literature to study before starting classes

Zieger S. 2025: Logistics and Power: Supply Chains from Slavery to Space, Wydawnictwo University of California Press, Kalifornia

SUBJECT-SPECIFIC LEARNING OUTCOMES (SLE)			**KEU**	**EVALUATION METHODS**	
	CODE	**FORM**	**CODE**	**CODE**	**FORM**
KNOWLEDGE	**W01**	Possesses basic knowledge of safety in intermodal transport systems and understands their functioning in transport chains.	K1_W06_L_P	MO2	Written exam in the form of a closed, single-choice test
	W02	Possesses general knowledge of transport processes and the conditions for their implementation, including safety aspects.	K1_W10_L_P		
SKILLS	**U01**	Is able to identify problems in intermodal transport processes and select basic methods and tools for solving them, taking into account applicable regulations.	K1_U02_L_P	MO6	Written test in the form of a closed, single-choice test
	U02	Is able to analyze and evaluate the safety, efficiency and selected economic aspects of intermodal transport processes.	K1_U05_L_P		
	U03	Is able to develop and improve selected solutions in the field of organization and safety of intermodal transport processes, taking into account legal, economic and environmental conditions.	K1_U12_L_P		
SOCIAL COMPETENCES	**K01**	Is ready to identify and resolve dilemmas related to ensuring safety in intermodal transport, while maintaining the principles of professional ethics and responsibility.	K1_K02_L_P	MO14	Continuous assessment (ongoing preparation for classes)

Subject content	Lecture	The essence and importance of security in intermodal transport, Intermodal transport systems – structure and participants in the transport chain, Legal regulations regarding security in intermodal transport (EU and national), Identification of threats in intermodal transport processes, Risk management in intermodal transport – basic methods and tools, Cargo security in various modes of transport (road, rail, sea, air), Technologies supporting security in intermodal transport (monitoring, ITS, RFID, IoT), Procedures for responding to incidents and crisis situations in the intermodal chain.
	Exercises	Analysis of the structure of a selected intermodal transport chain in terms of security, Identification of threats and weak points in the intermodal transport process, Risk assessment in a selected transport chain – case study, Development of a cargo security plan in intermodal transport, Analysis of legal regulations regarding security in logistics practice, Use of monitoring technology in cargo security management, Simulation of adverse events and development of crisis response procedures, Development of

		proposals for improving the security system in a selected intermodal process
	Laboratories	Transport accidents and incidents – analysis, Calculation of the probability of an accident occurring in transport processes, Determination of the causes of road accidents,
	Projects	Analysis and modeling of a safety management system in a selected intermodal transport process based on a case study.

	CODE	FORM
Teaching methods	**MD2**	Informative lecture using multimedia techniques
	MD10	Case method
	MD16	Laboratory exercises – solving tasks and problems

Compulsory literature	**1**	Burchard B. 2008: The Student Leadership Guide, Morgan James Publishing, Nowy Jork
	2	Christopher M. 2023: Logistics and Supply Chain Management, Wydawnictwo Financial Times Prent. Londyn
Additional literature	**1**	Dastbaz M. 2015: Green Information Technology: A Sustainable Approach, Elsevier LTD, Oxford

Conditions for passing the course
The requirements for passing the "Transport Risk Management and Insurance Systems" course are attendance and active participation in classes (lecture, tutorials, and laboratory). Assessment of the tutorials is based on the preparation and submission of reports and the presentation of work. The final grade is composed of the following: the lecture grade (30%), the tutorial grade (30%), and the laboratory grade (30%) of the final grade.