

SYLLABUS

Teacher					
Course	Organization and management of transport processes				
Module	Compulsory subjects	ECTS	5	Course code	23SM.P.L.A.17

Major	Speciality	Academic year	
LOGISTICS	Industrial systems engineering	2023/2024	
Semester	Third	Year of studies	Second

Type of studies	Full-time				Extramural			
Type of classes	Lecture	Exercise	Laboratories	Project	Lecture	Exercise	Laboratories	Project
Amount of hours	25	14	16					
TOTAL	55							

Course objectives	By studying the course content, students learn about the importance of transport and the process of transport management. Students will learn the strategic and operational nature of transport decisions including various transport models. Students understand the needs of improving transport and are able to design models and tools to improve quality as well as statistical control of transport processes. The emphasis is on understanding the Lean Thinking philosophy in sustainable transport. Attention is drawn to learning the principles and methods of transport risk management and insurance in an international environment
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Minimum knowledge required from the student before the classes beginning	Foundation of International Logistics, Logistics Management and Marketing
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Recommended literature to study before the classes beginning	Low D., Transport Manager's and Operator's Handbook, Kogan Page, 2021
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LEARNING OUTCOMES			KEK	METHODS OF ASSESSMENT	
KNOWLEDGE	K01	Has an extensive knowledge of the role of transport in supply chain management, in the economy and in world trade, and knows rules on transport and its financing	K2_W03_L_P	EM4	Written examination with open questions
	K02	Has advanced knowledge of freight and passenger transport technology, infrastructure (land, sea and air) as well as design and analysis of transport processes	K2_W08_L_P	EM4	Written examination with open questions
	K03	Has knowledge of legal norms governing (all types) of transport in Poland and the EU. Knows and understands the cultural and legal conditions of international transport	K2_W09_L_P	EM4	Written examination with open questions
	K04	Has knowledge of eliminating waste and the idea of LM in transport. Understands the importance of calculating and managing risk in domestic and international transport and knows the systems and conditions of transport insurance	K2_W08_L_P K2_W09_L_P	EM2 EM12	Written exam with multiple choice Control tests (quizzes) evaluation
	K05	Students understands the importance of dangerous goods regulations and knows the rules of transport process.	K2_W03_L_P	EM4	Written examination with open questions
SKILLS	S01	Is able to plan, organize and manage transport systems in the EU. Has the ability to integrate knowledge from various fields to model transport infrastructure, as well as the use of transport equipment in domestic and international logistics.	K2_U02_L_P	EM15	Evaluation of activity in the classroom
	S02	Is able to initiate and manage transport systems and has the ability to formulate a strategy for transport services on the domestic and international market.	K2_U03_L_P	EM15	Evaluation of activity in the classroom
	S03	Demonstrates proficiency in identifying development opportunities for logistic transport in the direction of sustainable transport as well as trends on the transport insurance market, including in international transport	K2_U06_L_P	EM15	Evaluation of activity in the classroom

	S04	Demonstrates the ability to plan and organize technological processes in transport. Demonstrates basic skills in the design and analysis of various transport systems as well as assessing its effectiveness	K2_U07_L_P	EM9	Written tests with practical (computational) tasks
SOCIAL COMPETENCE	SC01	Demonstrates proficiency in identifying and resolving dilemmas related to the management of modern sustainable transport, its financing and insurance	K2_K02_L_P	EM16	Evaluation of activity in the classroom
	SC02	Uses lean thinking skills and act in an entrepreneurial way to design modern sustainable transport in the country and internationally	K2_K03_L_P	EM16	Evaluation of activity in the classroom
	SC03				

Course contents	Lecture	<ol style="list-style-type: none"> 1. The role and importance of transport 2. Transport as a source of competitive advantage 3. Costing and pricing for transport 4. Motor carriers and railroads 5. Airlines 6. Water carriers and pipelines 7. Transport network design 8. Methodologies and tools for transport process management 9. Transport process stability 10. Statistical process control in transport 11. Control charts: Tools for statistical process control in transport 12. Lean transportation management 13. Transportation risk analysis 14. Transportation risk management 15. Transportation insurance
	Exercises	In the line with lectures
	Laboratories	In the line with lectures
	Projects	

Teaching methods	TM8	Projects method
	TM5	Problem lecture

Obligatory literature	1	McKinnon A., Browne M., Whiteing A., Piecyk M., Green Logistics: Improving the Environmental Sustainability of Logistics, Kogan Page, 2018
	2	Rushton A., Croucher P., Baker P., The Handbook of Logistics and Distribution Management, Kogan Page, 2022
	3	Button K., Transport Economics, Edward Elgar Publishing, 2019

Additional literature	1	Hayuth Y., Globalisation and the Maritime Industry, Routledge, 2019
	2	Stopford M., Maritime Economics, Routledge, 2020
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Requirements to pass the course	
<p>1-Class attendance. Each student is entitled to one unexcused absence. Acceptable late to class 15 minutes - after this time the student will not be allowed into the class.</p> <p>2-Reports performed during classes.</p> <p>3-Active participation and cooperation with the teacher</p> <p>4- All students must request to proposed final exam. Each response will be scored 0 - 10 points.</p> <p>5- Active participation and cooperation with the teacher is demanded.</p>	