

Course title: **International transport and logistics**

Studies: International Business

**Course description form (syllabus form)**

General data						
Cycle of studies	2024-2027					
Organizational unit	Faculty of Economic Sciences					
Studies	International Business, first-cycle studies					
The profile of education	general academic					
Semester	06					
Mode of studies	full-time					
Type of course	Lecture	Practical session	Laboratory	Conversatorium	Seminar	Project
Number of hours	15	30				
Number of ECTS	3					
Examination	Graded credit					
Language	English					
Content author	Joanna Dyczkowska, PhD /Dominik Katarzyński, Msc					
Course objectives						
The aim of the course is to acquaint students with the concept and history of the development of logistics and transport. It includes an overview of the scope of logistics activities and fundamental issues related to the functioning of enterprise logistics and its components, with an emphasis on warehouse and transport management. The course also explains the role and position of logistics and transport in the national and international economy, emphasizing the role of supply chains in the global economy.						
Prerequisites						
Participants are expected to have general knowledge and basic skills in terms of: economic knowledge, computer skills and understanding elementary issues related to organization and management.						
Student workload						
1. Class sessions - 45 hours 2. Reading literature for classes - 10 hours 3. Preparing assignments - 10 hours 4. Exam/Assessment preparation - 8 hours 5. Consultations – 2 hours  TOTAL: 75 hours (3 ECTS)						
Short description						
Transport - concept, modes of transport, infrastructure and outsourcing. Logistics - concept, genesis and role in the modern enterprise. Functional and phase division. Supply logistics - the concept of supply logistics and supply policy instruments. Production logistics - concept, types of production, functional subsystems of production logistics. Distribution logistics - concepts, distribution channels, elements of distribution logistics. Warehouse management - inventory management. Supply chain structure.						
Learning outcomes						
<b>KNOWLEDGE:</b> W01. Participants understand, at an advanced level, selected facts, objects, and phenomena, along with their associated methods and theories explaining complex interdependencies between them, constitute fundamental knowledge in the field of logistics. This includes the functioning in both micro and macroeconomic scales on the market, as well as internal and external relationships within economic entities. (IB1_W01, IB1_W02) W02. Participants possess advanced knowledge of social relations and the principles occurring in the field of transportation and logistics, supply chain management, as well as occupational safety and hygiene within the functioning of logistics organizations. (IB1_W05, IB1_W06)						
<b>SKILLS:</b> U01. Participants are able to apply their theoretical knowledge in economics and related disciplines, as well as gather data for the analysis and assessment of processes and phenomena related to business practices in the field of transport and logistics. (IB1_U01, IB1_U02) U02. Participants can identify logistical processes within a company, critically assess them, and apply forecasting techniques and tools to project transport and logistical processes. (IB1_U01, IB1_U03) U03. Participants can utilize modern information solutions, including advanced information and communication techniques. (IB1_U03)						
<b>COMPETENCIES:</b> K01. Participants are ready for a critical self-assessment of their knowledge, understanding the necessity for continuous learning, and are open to collaboration and working in a group. (IB1_K01) K02. Participants are ready for independent thinking, task execution in an entrepreneurial manner, recognizing the importance of knowledge in solving cognitive and practical problems. They demonstrate care in developing interpersonal skills, complementing and improving their acquired knowledge and skills in their profession. (IB1_K02, IB1_K03) K03. Participants are ready to adhere to legal and ethical standards in of transport and logistics, guided by social and environmental responsibility, while also caring for the common good and respecting the achievements and traditions of the profession. (IB1_K04)						

Form of verification
Graded credit based on the content covered during classes
Detailed data
Type of course: Lecture
Bibliography
<b>Bibliography:</b> 1. Adams, J. (2021). Transport planning: Vision and practice (Vol. 1). Routledge. 2. Frazelle, E. (2020). Supply chain strategy: the logistics of supply chain management. McGraw-Hill. 3. Waters, D. (2021). Logistics An Introduction to supply chain management. Palgrave macmillan.
<b>Supplementary:</b> 1. Dyczkowska, J., Chamier-Gliszczyński, N., Olkiewicz, M., & Królikowski, T. (2023). Decision support in the area of Logistics 4.0. Procedia Computer Science, 225, 4758-4765. 2. Korczak, J., & Kijewska, K. (2019). Smart Logistics in the development of Smart Cities. Transportation Research Procedia, 39, 201-211. 3. Dyczkowska, J., & Reshetnikova, O. (2019). New technological solutions in logistics on the example of logistics operators in Poland and Ukraine. SMART supply network, 47-69.
Range of content
1. Transport - concept, modes of transport, infrastructure and outsourcing. 2. Logistics - concept, genesis and role in the modern enterprise. 3. Functional and phase division. Processes and areas. 4. Supply logistics - the concept of supply logistics and supply policy instruments. 4. Production logistics - concept, types of production, functional subsystems of production logistics. 5. Distribution logistics - concepts, distribution channels, elements of distribution logistics. 6. Warehouse management - inventory management & packing. 7. Supply chain structure. 8. Basic developmental worldwide trends in logistics;
Didactic methods
1. Lecture incorporating a multimedia presentation; 2. Discussion; 3. Case studies;
Assessment methods and assessment criteria
1. A multiple choice assessment test consisting of various questions regarding international logistics and transport. Grading scale: <ul style="list-style-type: none"> <li>– 5 = 95%</li> <li>– 4+ = 85%</li> <li>– 4 = 75%</li> <li>– 3+ = 65%</li> <li>– 3 = 55%</li> </ul> 2. Involvement and engagement in task completion, as well as participation in student scientific circles' activities.

Detailed data
Type of course: Practical session
Bibliography
<b>Bibliography:</b> <ol style="list-style-type: none"> <li>1. Waters, D., &amp; Rinsler, S. (2014). Global logistics: New directions in supply chain management. Kogan Page Publishers.</li> <li>2. Frazelle, E. (2020). Supply chain strategy: the logistics of supply chain management. McGraw-Hill.</li> <li>3. Button, K. (2010). Transport economics. Edward Elgar Publishing.</li> </ol> <b>Supplementary:</b> <ol style="list-style-type: none"> <li>1. Winkelhaus, S., &amp; Grosse, E. H. (2020). Logistics 4.0: a systematic review towards a new logistics system. International Journal of Production Research, 58(1), 18-43.</li> <li>2. Gudehus, T., &amp; Kotzab, H. (2012). Comprehensive logistics. Springer Science &amp; Business Media.</li> <li>3. McKinnon, A., Browne, M., Whiteing, A., &amp; Piecyk, M. (Eds.). (2015). Green logistics: Improving the environmental sustainability of logistics. Kogan Page Publishers.</li> </ol>
Range of content
<ol style="list-style-type: none"> <li>1. Concepts of JiT (Just-in-Time) and Kanban;</li> <li>2. Analysis of ABC/XYZ inventory states - a case study;</li> <li>3. Management system and logistic processes;</li> <li>4. Transportation. Outsourcing services;</li> <li>5. The role of supply chains in global economy;</li> <li>6. Material Requirements Planning.</li> <li>7. Level and structure of material stocks.</li> <li>8. Flows of material and information.</li> <li>9. The role of green logistics in the future of international economy.</li> </ol>
Didactic methods
<ol style="list-style-type: none"> <li>1. Discussion;</li> <li>2. Case studies;</li> <li>3. Problem task solving;</li> </ol>
Assessment methods and assessment criteria
<ol style="list-style-type: none"> <li>1. Average grades from individual and group assignments, as well as participation in classes.</li> <li>2. Observation of participants work during classes;</li> <li>3. Involvement and engagement in task completion, as well as participation in student scientific circles' activities.</li> </ol>