



Subject card

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|---|---|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Supply chain logistics, PG_00064983 | | | | | | |
| Field of study | Transport and Logistics | | | | | | |
| Date of commencement of studies | February 2025 | | Academic year of realisation of subject | | 2024/2025 | | |
| Education level | second-cycle studies | | Subject group | | Obligatory subject group in the field of study | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 1 | | Language of instruction | | Polish | | |
| Semester of study | 1 | | ECTS credits | | 3.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Zakład Hydromechaniki i Projektowania Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Anna Dembicka | | | | |
| | Teachers | | mgr inż. Wojciech Olszewski dr Anna Dembicka | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 30.0 | 0.0 | 45 |
| | 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 | 45 | | 10.0 | | 20.0 | 75 |
| Subject objectives | Understanding logistics processes in supply chain management in the structure of a modern company. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice | | The student correctly analyzes social, economic and legal aspects (including industrial property protection), taking them into account in engineering practice. | | [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge | | |
| | [K7_U01] utilizes acquired methods, tools and mathematical models for analysis and evaluation of transport systems and processes | | The student correctly and critically uses the methods and tools needed to analyze and evaluate transport systems. | | [SU4] Assessment of ability to use methods and tools | | |
| | [K7_W13] explains the main principles of individual and teamwork organization, including various forms of entrepreneurship utilizing knowledge from the field of engineering and technical sciences and disciplines relevant to the course of study | | The student correctly uses the acquired knowledge in the field of engineering and technical sciences to explain the basic principles of organizing individual and team work. | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K7_U02] formulates and tests hypotheses concerning problems of transport systems and processes, as well as simple research problems | | The student correctly verifies issues related to transport and logistics | | [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information | | |

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| Subject contents | The concept of logistics, stages of development, factors determining the development and functions of logistics. Forms of logistics integration (product and geographical). Logistics process management (logistics management tools). Logistics system in enterprise management. Transport and logistics points (ports, intermodal terminals, distribution centers, logistics centers). Logistics centers in intermodal transport and supply chain structures. Logistics center as an element of the logistics network. Logistics and the supply chain. Replacing the logistics theory with the theory of supply chain management - as a response to the network environment of modern organizations. Origin and essence of supply chains (supplies of raw materials and components, manufacturer, distributor, seller, end customer) and its components (transport chains). Processes in supply chains. Supply chain management. Supply chain and logistics chain (logistics networks) - coordination of activities for mutual benefits. Value chain. Eurologistics and eurosupply chains. Socially responsible supply chains, circular economy in supply chains. Innovations in the supply chain. Digital solutions in supply chains, smart logistics concept, smart chains Flexibility, leanness, agility, resilience and hybridity of the supply chain. Risk in supply chains Forwarding in supply chains Determinants of supply chain transformation. Evolution of supply chains in global economic areas (factory Asia, Europe, North America). | | |
| Prerequisites and co-requisites | Knowledge in the area of management, marketing and economics | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | test | 60.0% | 60.0% |
| | group presentation | 60.0% | 40.0% |
| Recommended reading | Basic literature | J. Witkowski, Zarządzanie łańcuchem dostaw, PWE, Warszawa 2010. P. Blaik, Logistyka. PWE, Warszawa 2017. A. Szymonik, R. Stanisławski, A. Błaszczuk, Nowoczesna koncepcja ekologii, Difin, Warszawa 2021. E. Kulińska, M. Dendera-Gruszka, Zarządzanie ryzykiem łańcuchów dostaw, Difin, Warszawa 2019. | |
| | Supplementary literature | I. Wasilewska-Marszałkowska, Spedycja we współczesnych łańcuchach dostaw, CeDeWu, Warszawa 2022. J. Neider, Transport międzynarodowy, PWE, Warszawa 2019. M. Ziółko, D. Dziedzic, Transport i łańcuchy dostaw w czasie pandemii, CeDeWu, Warszawa 2021. | |
| | eResources addresses | Adresy na platformie eNauczanie: Logistyka łańcuchów dostaw - Moodle ID: 44447 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=44447 | |
| Example issues/ example questions/ tasks being completed | transport, logistics, supply chains, supply chain logistics, supply chain logistics | | |
| Work placement | Not applicable | | |

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