



Subject card

Subject name and code	Logistics process management, PG_00059506						
Field of study	Management and Production Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025	
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research 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	2		ECTS credits			3.0	
Learning profile	general academic profile		Assessment form			exam	
Conducting unit	Zakład Technologii Maszyn i Automatykacji Produkcji -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Aleksandra Wiśniewska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	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		8.0		37.0	75
Subject objectives	The student learns the goals and principles of the supply chain operation in terms of logistics. The student learns the methods and tools used in supply chain management. By expanding knowledge and performing simple exercises related to the analyzed areas of issues related to the scope of the supply chain, the student can independently design a supply chain management system, starting from the development of a supply system and an optimized technological line, through the evaluation and selection of suppliers, and ending with efficient distribution.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W01] knows and understands to a greater extent selected issues in the field of management and quality sciences and mechanical engineering, their location in the field of social sciences and engineering and technical sciences, as well as relationships with related disciplines, and sees the possibility of applying the knowledge in practice	The student is able to define the goals and principles of the supply chain in terms of logistics, determines the structure of the chain along with the streams of flow of goods and information and adaptation to the needs of the market.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge
	[K7_K01] is aware of the need to expand knowledge and verify the methods of solving problems by consulting experts	The student is able to analyze the effectiveness of their chosen methods of solving problems. Is able to identify shortages of knowledge, skills and experience, and then set development directions based on the principles of continuous improvement.	[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice
	[K7_U05] is able - in accordance with a given specification, taking into account non-technical aspects - to design a complex device, object, system or process related to the studied engineering discipline, and to implement this project - at least in part - using appropriate methods, techniques and tools, if necessary, adapting to it the purpose of existing or developing new tools	The student is able to design the structure of processes, the arrangement of workstations and objects with the use of methods and tools commonly used for this purpose and modifications created for the needs of non-standard solutions.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools
	[K7_K05] is able to integrate the possessed knowledge from various scientific disciplines, and in the innovative implementation of engineering tasks also take into account system and non-technical aspects, including ethical ones	The student organizes his own and team work, choosing the means and methods of managing roles in the team, managing the division of tasks and managing change. Knows and uses activation methods and tools that foster creativity and innovation.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills
	[K7_W04] has an organized knowledge of the life cycle of devices, facilities and technical systems, has an extensive knowledge of management.	The student identifies, selects analytical methods, analyzes, determines relationships, formulates conclusions and recommendations for the management and control of logistics processes.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects

Subject contents	<p>Lectures:</p> <p>Logistics concept and development; supply chain management; logistics systems; analysis of logistics systems; logistic channels; supply logistics; production logistics; distribution logistics; logistics and marketing; logistic costs of enterprises; environmental protection logistics; logistics services (outsourcing).</p> <p>Design exercises:</p> <p>Logistic decision problems in: customer service, transport management, inventory management, storage, location of logistics facilities; transport and forwarding; transport logistics: road, rail, air, inland waterway, sea, combined, urban.</p> <p>The student learns the goals and principles of the supply chain operation in terms of logistics: minimizing the costs resulting from the flow of goods and information while maintaining a good level of customer service; short order fulfillment times as well as trouble-free and flexible deliveries; optimizing the level of inventories along with adjusting to the needs of the market.</p> <p>The student learns the methods and tools used in supply chain management:</p> <ul style="list-style-type: none"> • LM (Lean management) - slimming management • QR (Quick Response) - quick response • AM (Agile Management) - flexible management • TQM (Total Quality Management) - comprehensive quality management • BPR (Business Process Reengineering) - redesign of the business process • TBM (Time Based Management) - time management • Six Sigma • ECR (Efficient Consumer Response) - effective service in customer supply chains • JiT (Just in time) - just on time • SCOR- (Supply Chain Operation Reference-Model) - the reference model of the supply chain • VMI (Vendor Management Inventory) - inventory management by the supplier <p>By expanding knowledge and performing simple design exercises related to the analyzed areas of supply chain issues, the student can independently design a supply chain management system, starting from the development of a supply system and an optimized technological line, through the evaluation and selection of suppliers, and ending with efficient distribution.</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 1205 798 1234">Subject passing criteria</th> <th data-bbox="801 1205 1139 1234">Passing threshold</th> <th data-bbox="1142 1205 1485 1234">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 1238 798 1267">Project</td> <td data-bbox="801 1238 1139 1267">60.0%</td> <td data-bbox="1142 1238 1485 1267">50.0%</td> </tr> <tr> <td data-bbox="453 1272 798 1301">Written exam</td> <td data-bbox="801 1272 1139 1301">60.0%</td> <td data-bbox="1142 1272 1485 1301">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project	60.0%	50.0%	Written exam	60.0%	50.0%
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Recommended reading	Basic literature	<p>Ballou R.: Business Logistics Supply Chain Management. Prentice Hall, 2004.</p> <p>Pienaar W.: Business Logistics Management. Oxford University Press, 2009.</p> <p>Rutkowski K. (ed.): Best Practices in Logistics and Supply Chain Management the Case of. SGH, 2009.</p> <p>Witkowski Jarosław, Zarządzanie łańcuchem dostaw: Koncepcje, Procedury, Doświadczenia., PWE 2003</p> <p>Ciesielski Marek, Instrumenty zarządzania łańcuchami dostaw., PWE 2009</p> <p>Christopher Martin, Logistyka i zarządzanie łańcuchem dostaw., Polskie Centrum Doradztwa Logistycznego 1992</p> <p>Bozarth Cecil B., Handfield Robert B., Wprowadzenie do zarządzania operacjami i łańcuchem dostaw., Helion 2007</p> <p>Gołomska Elżbieta, Kompendium wiedzy o logistyce., PWN 1999</p> <p>Sarjusz-Wolski Zdzisław, Sterowanie zapasami w przedsiębiorstwie., PWE 2000</p> <p>Kenneth Lysons, Zakupy zaopatrzeniowe., PWE 2004</p> <p>Yann Bouchery, Jan Fransoo, Charles J. Corbett, Tarkan Tan, Sustainable Supply Chains: A Research-Based Textbook on Operations and Strategy., Springer 2016</p>
	Supplementary literature	<p>Supply Chain Management Review , www.scmr.com</p> <p>Logistics Management, www.logisticsmgmt.com</p> <p>Supply Management, www.supplymanagement.com</p> <p>Bartłomiej Gawin, Systemy informatyczne w zarządzaniu procesami Workflow. PWN 2020</p> <p>Wojewódzka-Król Krystyna , Rolbiecki Ryszard, Infrastruktura transportu. Europa, Polska teoria i praktyka, PWN 2018</p> <p>Dani Samir, Strategic Supply Chain Management: Creating Competitive Advantage and Value Through Effective Leadership., Amazon Books 2019</p>
	eResources addresses	Adresy na platformie eNauczanie:

<p>Example issues/ example questions/ tasks being completed</p>	<ul style="list-style-type: none"> • LM (Lean management) - slimming management • QR (Quick Response) - quick response • AM (Agile Management) - flexible management • TQM (Total Quality Management) - comprehensive quality management • BPR (Business Process Reengineering) - redesign of the business process • TBM (Time Based Management) - time management • Six Sigma • ECR (Efficient Consumer Response) - effective service in customer supply chains • JiT (Just in time) - just on time • SCOR- (Supply Chain Operation Reference-Model) - the reference model of the supply chain • VMI (Vendor Management Inventory) - inventory management by the supplier
<p>Work placement</p>	<p>Not applicable</p>

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