



Subject card

Subject name and code	SUPPLY CHAIN MANAGEMENT, PG_00061476						
Field of study	Engineering Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Joanna Czerska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24		5.0		71.0	100
Subject objectives	Designs supply chain structures and models as well as systems for managing stock holding and circular economy in the supply chain						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques		designs innovative supply chain management solutions using appropriately selected methods		[SU4] Assessment of ability to use methods and tools		
	[K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas		models and optimizes supply chains in accordance with specific business goals, taking into account environmental aspects		[SW1] Assessment of factual knowledge		

Subject contents	<p>LECTURE</p> <p>Basic concepts related to supply chain management</p> <p>Current trends and strategies in supply chain management</p> <p>Modeling the supply chain</p> <p>Supply chain map and its construction: from suppliers through manufacturers, distributors to the final customer</p> <p>Principles of assessing the current state of the supply chain: supply chain costs, operational and financial indicators, information and material flow in the supply chain</p> <p>Principles of modeling the state of the future supply chain</p> <p>Principles of planning changes in the supply chain</p> <p>Tools and techniques of shaping the supply chain</p> <p>The time required by the customer to complete the order and the construction of the supply chain</p> <p>Fundamentals of forecasting in the supply chain</p> <p>Inventory management in the supply chain</p> <p>Organizational structures within supply chain management</p> <p>TUTORIAL</p> <p>Supply Chain Management simulation game</p> <p>Analysis of the current state of the supply chain: participants in the supply chain, the course of processes in the supply chain, places where stocks are maintained in the supply chain, key indicators in supply chain management</p> <p>Supply chain diagnosis based on the supply chain map: identification of challenges and problems in the flow of information, materials in terms of business and operational objectives of the supply chain</p> <p>Designing changes in the supply chain and analyzing their results: modeling the flow of information and materials, pull system in the supply chain</p> <p>Supply chain operational and financial performance management</p> <p>Building a sustainable supply chain strategy working in groups on selected products in various production sectors (e.g. food, clothing, electronics)</p> <p>Analysis and mapping of the current supply chain for selected products: analysis of supply chain stages, identification of suppliers, their activities and locations at different levels of the supply chain</p> <p>Socio-environmental analysis of the supply chain, risk assessment and identification of areas of action</p> <p>Developing an action plan based on socio-environmental analysis to improve efficiency in the supply chain</p> <p>Formulating requirements and a code of conduct for suppliers building Maturity Matrices</p> <p>Developing supply chain management indicators for sustainable development (Sustainable Supply Chain Balanced Scorecard)</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	50.0%
	Active participation in classes	80.0%	50.0%
Recommended reading	Basic literature	Goldratt E. Czy to nie oczywiste?, Mint books, 2012 Grant, David B.; Wong, Chee Yew; Trautrim, Alexander. Sustainable Logistics and Supply Chain Management. Kogan Pag, 2017 Eliyahu M. Goldratt, Ilan Eshkoli, Joe Brownleer. Isn't It Obvious?, The North River press, 2009 Weetman, Catherine. A Circular Economy Handbook for Business and Supply Chains. Kogan Page, 2016	
	Supplementary literature	Cetinkaya, Balkan; Cuthbertson, Richard; Ewer, Graham; Klaas-Wissing, Thorsten; Piotrowicz, Wojciech; Tyssen, Christoph. Sustainable Supply Chain Management. Springer Berlin Heidelberg 2011 Ellen MacArthur Foundation, Towards the Circular Economy, Economic and business rationale for an accelerated transition. 2011	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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