



Subject card

Subject name and code		SUPPLY CHAIN MANAGEMENT, PG_00066792						
Field of study		Engineering Management						
Date of commencement of studies		October 2022	Academic year of realisation of subject			2024/2025		
Education level		first-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		3	Language of instruction			English		
Semester of study		6	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		dr inż. Joanna Czerska mgr Anna Wendt				
Lesson types and methods of instruction		Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
		Number of study hours	15.0	30.0	0.0	0.0	0.0	45
		E-learning hours included: 0.0						
		Additional information: Case studies, project, analytical and calculation tasks, simulation game						
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	6.0		49.0		100
Subject objectives		The aim of the course is to equip students with the skills to manage the structure of the supply chain and the inventories generated within it, taking into account supply chains adapted to the circular economy.						
Learning outcomes		Course outcome		Subject outcome		Method of verification		
		[K6_K82] is equipped to participate in lectures, seminars and laboratory classes conducted in foreign language		The student is ready to actively participate in classes conducted in English		[SK2] Assessment of progress of work		
		[K6_W81] has knowledge of grammatical structures and lexical resources needed to communicate in foreign language in terms of general and specialist language related to field of study		The student is ready to present the results of the supply chain management project in English.		[SW2] Assessment of knowledge contained in presentation		
		[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student knows and understands the determinants of supply chain design and the principles of selecting methods that determine stock levels in the chain.		[SW1] Assessment of factual knowledge		
		[K6_U10] uses tools to measure and improve technical solutions concerning: devices, objects, systems, processes, products and services		Students will be able to select methods of measuring parameters influencing the structure of the supply chain and apply them in the course of supply chain design.		[SU1] Assessment of task fulfilment		

Subject contents	Theoretical and practical issues 1. Introduction to logistics and supply chain management 2. Key costs and indicators in supply chain management 3. Supply chain management. Simulation game. 4. Push vs pull system 5. Determinants of flow in the supply chain: Speed, flexibility, variability, frequency 6. Inventory management part 1: Inventory management methods: DTO, MTO, ATO, MTS 7. Inventory management part 2: Determining inventory levels Project: Supply chain concept for closed loop of selected product																	
Prerequisites and co-requisites																		
Assessment methods and criteria	<table border="1" data-bbox="451 443 1487 477"> <thead> <tr> <th data-bbox="451 443 794 477">Subject passing criteria</th> <th data-bbox="794 443 1137 477">Passing threshold</th> <th data-bbox="1137 443 1487 477">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 477 794 510">Active participation</td> <td data-bbox="794 477 1137 510">80.0%</td> <td data-bbox="1137 477 1487 510">10.0%</td> </tr> <tr> <td data-bbox="451 510 794 544">Extra tasks</td> <td data-bbox="794 510 1137 544">0.0%</td> <td data-bbox="1137 510 1487 544">30.0%</td> </tr> <tr> <td data-bbox="451 544 794 577">Quizzes</td> <td data-bbox="794 544 1137 577">60.0%</td> <td data-bbox="1137 544 1487 577">20.0%</td> </tr> <tr> <td data-bbox="451 577 794 611">Project</td> <td data-bbox="794 577 1137 611">60.0%</td> <td data-bbox="1137 577 1487 611">40.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Active participation	80.0%	10.0%	Extra tasks	0.0%	30.0%	Quizzes	60.0%	20.0%	Project	60.0%	40.0%
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Recommended reading	Basic literature	1. Coyle J.J., Bardi E.J., Langley C.J.jr.: The Management of Business Logistic. A supply Chain Perspective. 7th ed. Mason; Thomas Learning, 2003. 2. Christopher M., Logistics and Supply Chain Management: Strategies for Reducing Costs and Improving Services, Pitman / Financial Times Publ. 1998. 3. Duggan K.J., Creating mixed model value streams, second edition, Productivity Press 2012																
	Supplementary literature	not applicable																
	eResources addresses	Adresy na platformie eNauczenie: Supply Chain Management_2025_Joanna Czerska - Moodle ID: 42957 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=42957																
Example issues/ example questions/ tasks being completed	1. Assess the efficiency of the supply chain. 2. Determine the extent of changes to the supply chain structure necessary to improve its efficiency 3. Calculate production flexibility 4. Determine the minimum production and purchase batches 5. Analyse stock rotation 6. Select the inventory calculation method 7. Determine stock levels 8. Design a closed loop supply chain for a selected product																	
Work placement	Not applicable																	

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