



Subject card

Subject name and code	, PG_00056524						
Field of study	Engineering Management						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Part-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Marjańska				
	Teachers		dr inż. Ewa Marjańska				
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		0.0		0.0	24
Subject objectives	The aim of the Lean Manufacturing course is to develop students' skills in using Lean Manufacturing tools to eliminate key challenges in production processes. The aim of the theoretical material (lectures) is to familiarize students with the problems that arise in production processes and the way in which the presented tools help in solving them The aim of the exercises is to support students in the development of skills and the use of tools for various processes and situations.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student has basic knowledge of the use of Lean Manufacturing tools to eliminate key challenges in production processes.		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		The student is able to design solutions using the indicated Lean Manufacturing methods and tools		[SU4] Assessment of ability to use methods and tools		
Subject contents	Basic concepts related to Lean Manufacturing5S - involvement in the elimination of wasteVisual performance managementOne piece flow / Continuous flowStandardization of workMilk run - organization of supplying stations with materialsPoka-yoke - good the first timeKamishibai - tiered standardsauditingSuggestion systemSMED						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Quizes on e-nauczanie	85.0%	15.0%
	Mini projects	60.0%	20.0%
	Presence	75.0%	15.0%
	Final exam	60.0%	50.0%
Recommended reading	Basic literature	Narzędzia Lean Manufacturing, Joanna Czerska	
		Pozwól płynąć swojemu produktowi, Joanna Czerska	
	Supplementary literature	Doskonalenie strumienia wartości. Joanna Czerska	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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