

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Lean Management, PG_00049444								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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	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. Ewa Marjańska						
	Teachers		mgr Anna Wendt						
			dr inż. Ewa Marjańska						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan				Self-study		SUM	
	Number of study hours			7.0	48.0			100	
Subject objectives	The Lean Manageme Production System (T knowledge and skills skills sought after by	PS).The theor (WHY?) for en top-tier enterpr	etical part aims terprises and th ises, enhancing	to explain the neir employees g their marketa	signific Exerci	ance of ses aim	Lean Manag to help stude	ement ents develop	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U10] uses tools to measure and improve technical solutions concerning: devices, objects, systems, processes, products and services		The student is able to make an assessment process and point to it inefficiencies. The student developed a skill teamwork based on values			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student has basic knowledge of scope of Lean Management and can apply it in practice solving emerging problems in production processes, services and logistics.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			

Subject contents	The lecture includes an introduction to Lean Management and the Toyota Production System, key Lean Management tools in the improvement process (Management system development tools, Flow improvement tools, Efficiency improvement tools, Pace and quality improvement tools, Management system development tools), and issues related to Lean Leadership .A manager managing an organization that is constantly improving must have a number of skills, such as managing the continuous development of a team. The exercises include the Improvement Kata simulation game (identification of team identity and values, management of continuous improvement) and management of competence development.Lean Management tools will also be discussed, including value stream mapping using the Makigami method, analysis and improvement of process flow using case study examples, problem diagnosis, diagnosis of the state of the existing process, setting the goal of changes, building a process vision, identifying root causes and designing improvement actions, planning changes using a roadmap and concept design and communication of changes.						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	competencies matrix	60.0%	6.0%				
	one point lessons	60.0%	15.0%				
	makigami design	60.0%	39.0%				
	development plan	60.0%	20.0%				
	theoretical quizzes	60.0%	20.0%				
Recommended reading	Basic literature	Oto tytuły książek w języku angielskim:3. "Start with Why: How Great Leaders Inspire Everyone to Take Action" by Simon Sinek, 20214. "Learning to See: Value Stream Mapping to Add Value and Eliminate MUDA" by John Shook and Mike Rother, 2017					
	Supplementary literature	1. The Lean Toolbox, John Bicheno					
	eResources addresses	Adresy na platformie eNauczanie:					
		Lean Management_ZiE lato 2024 - Moodle ID: 35036 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35036					
Example issues/ example questions/ tasks being completed	1. Develop a set of team values2. Develop a team competence matrix3. Build one-point lessons for selected lean tools4. Analyze the process using the makigami method5. Use the priority matrix to determine key changes in the process6. Design changes in the process using the makigami method 7. Build and evaluate your development plan based on lean management						
Work placement	Not applicable	Not applicable					

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