



Subject card

Subject name and code	LEAN MANAGEMENT, PG_00061366						
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	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 -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Marjańska				
	Teachers						
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						
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		5.0		50.0	100
Subject objectives	Analyzes and evaluates various processes using the results of analyzes to improve them						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas		formulate innovative solutions to process inefficiency problems using Lean Management techniques to an advanced degree		[SW1] Assessment of factual knowledge		
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques		design production, service and logistics processes using appropriately selected methods		[SU4] Assessment of ability to use methods and tools		
Subject contents	LECTURE Introduction to Lean Management and Toyota Production System Phases of building a team focused on a common goal according to Patric Lencioni Start with why. Simon Sink's concept 10 principles of Kaizen 3 types of security in the enterprise. Financial, mental and physical 3 votes in the enterprise. The voice of the customer, the voice of the company and the voice of the employee Management by values Executioner's Improvement simulation game Team identity and values Lean Leadership Continuous improvement management TUTORIAL Learn to see. Introduction to value stream mapping using the Makigami method Analysis and improvement of process flow on selected case studies Problem diagnosis. Diagnosis of the state of the existing process Setting a goal for change. Building a process vision Identification of root causes and designing improvement actions Planning changes using a road map Concept design: (1) PLN 0 budget, (2) cheap, (3) new technologies with established limitations Communication of changes						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	25.0%
	Attendance	80.0%	25.0%
	Completing an online course	75.0%	25.0%
	implementation of the development plan	80.0%	25.0%
Recommended reading	Basic literature	Cel I. [T.] 1, Doskonałość w produkcji. Eliyahu M. Goldratt i Jeff Cox Pięć dysfunkcji pracy zespołowej. Opowieść o przywództwie. Patric Lencioni Zaczynaj od dlaczego. Jak wielcy liderzy inspirują innych do działania. Simon Sinek Poradnik Młodego Lean Lidera. red. Joanna Czerska Naucz się widzieć. Metoda mapowania strumienia wartości. John Shook, „Mike Rother	
	Supplementary literature	Narzędzia Lean Management. Joanna Czerska Doskonalenie strumienia wartości. Joanna Czerska	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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