



## Subject card

Subject name and code	Lean Management, PG_00049446						
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	Part-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> 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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	16.0	0.0	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		7.0		69.0	100
Subject objectives	The aim of the Lean Management course is to introduce students to the world of management-based conceptson the Toyota Production System (TPS Toyota Production System) and support students in developing skills that will allow them to become market participants jobs desired by the so-called enterprises Best in Class						
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		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		he student has basic knowledge of scope of Lean Management and can apply it in practice solving emerging problems in production processes, services and logistics.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		

Subject contents	LECTURE Introduction to Lean Management and Toyota Production System Key Lean Management tools in the improvement process (System development toolsmanagement, Flow improvement tools, Efficiency improvement tools, Toolsrate and quality improvement, management system development tools) Lean Leadership. What must a manager be able to do in an organization that is constantly improving? Managing the continuous development of the team.EXERCISES Improvement Kata simulation game (Team identity and values, Continuous managementimprovement) Management of competence development. Lean Management tools. Learn to see. Value stream mapping using the Makigami method:Analysis and improvement of process flow on selected case studiesProblem diagnosis. Diagnosis of the condition of the existing processSetting a goal for change. Building a process visionIdentifying root causes and designing improvement actionsPlanning changes using a roadmapConcept designCommunication of changes		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	obligatory tasks (exercises)	60.0%	60.0%
	extra task (lecture)	80.0%	20.0%
	theoretical quizzes (lecture)	60.0%	20.0%
Recommended reading	Basic literature	1. Cel I. [T.] 1, Doskonałość w produkcji. Eliyahu M. Goldratt i Jeff Cox, 2000 2. Pięć dysfunkcji pracy zespołowej. Opowieść o przywództwie. Patric Lencioni, 2016 3. Zaczynaj od dlaczego. Jak wielcy liderzy inspirują innych do działania. Simon Sinek, 2021 4. Naucz się widzieć. Metoda mapowania strumienia wartości. John Shook, ,Mike Rother, 2017	
	Supplementary literature	1.Podstawowe narzędzia Lean Management. Joanna Czerska, 20142.Doskonalenie strumienia wartości. Joanna Czerska, 2014	
	eResources addresses	Adresy na platformie eNauczanie: LEAN MANAGEMENT 24/25 NSTC - Moodle ID: 40223 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40223">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40223</a>	
Example issues/ example questions/ tasks being completed	1. Develop a set of team values 2. Develop a team competence matrix 3. Build one-point lessons for selected lean tools 4. Analyze the process using the makigami method 5. Use the priority matrix to determine key changes in the process 6. Design changes in the process using the makigami method 7. Build and implement your development plan based on lean management course		
Work placement	Not applicable		

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