



## 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 concepts on 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	<p>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</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 602 794 629">Subject passing criteria</th> <th data-bbox="799 602 1141 629">Passing threshold</th> <th data-bbox="1145 602 1492 629">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 636 794 663">obligatory tasks (exercises)</td> <td data-bbox="799 636 1141 663">60.0%</td> <td data-bbox="1145 636 1492 663">60.0%</td> </tr> <tr> <td data-bbox="453 669 794 696">extra task (lecture)</td> <td data-bbox="799 669 1141 696">80.0%</td> <td data-bbox="1145 669 1492 696">20.0%</td> </tr> <tr> <td data-bbox="453 703 794 730">theoretical quizzes (lecture)</td> <td data-bbox="799 703 1141 730">60.0%</td> <td data-bbox="1145 703 1492 730">20.0%</td> </tr> </tbody> </table>			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%
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Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Cel I. [T.] 1, Doskonałość w produkcji. Eliyahu M. Goldratt i Jeff Cox, 2000</li> <li>2. Pięć dysfunkcji pracy zespołowej. Opowieść o przywództwie. Patric Lencioni, 2016</li> <li>3. Zaczynaj od dlaczego. Jak wielcy liderzy inspirują innych do działania. Simon Sinek, 2021</li> <li>4. Naucz się widzieć. Metoda mapowania strumienia wartości. John Shook, „Mike Rother, 2017</li> </ol>													
	Supplementary literature	<ol style="list-style-type: none"> <li>1.Podstawowe narzędzia Lean Management. Joanna Czerska, 20142.Doskonalenie strumienia wartości. Joanna Czerska, 2014</li> </ol>													
	eResources addresses	<p>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></p>													
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Develop a set of team values</li> <li>2. Develop a team competence matrix</li> <li>3. Build one-point lessons for selected lean tools</li> <li>4. Analyze the process using the makigami method</li> <li>5. Use the priority matrix to determine key changes in the process</li> <li>6. Design changes in the process using the makigami method</li> <li>7. Build and implement your development plan based on lean management course</li> </ol>														
Work placement	Not applicable														

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