



Subject card

Subject name and code	Lean Management, PG_00049444						
Field of study	Engineering Management						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
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	Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Joanna Czerska					
	Teachers	dr inż. Joanna Czerska mgr Anna Wendt					
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	7.0		48.0	100	
Subject objectives	<p>The aim of the Lean Management course is to introduce students to the world of the management concept based on the Toyota Production System (TPS). The aim of the theoretical material (lectures) is to familiarize students with the so-called WHY ?, i.e. the reasons why the knowledge of Lean Management and the skills that students will develop during the exercises are of value for companies and their employees. The aim of the exercises is to support students in the development of skills that will allow them to become members of the labor market desired by Best in Class enterprises.</p>						
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 in the field of Lean Management and is able to apply it in practice, solving problems arising in production, service and logistics processes.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	[K6_U10] uses tools to measure and improve technical solutions concerning: devices, objects, systems, processes, products and services	The student is able to evaluate the process and indicate its ineffectiveness. The student has developed the ability to work in a team based on values			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>LECTURE</p> <ol style="list-style-type: none"> 1. Introduction to Lean Management and Toyota Production System 2. Key Lean Management tools in the improvement process (Management System Development Tools, Flow Improvement Tools, Efficiency Improvement Tools, Speed and Quality Improvement Tools, Management System Development Tools) 3. Lean Leadership. What a manager managing a continuous improvement organization must be able to do 4. Managing continuous team development. <p>EXERCISES</p> <ol style="list-style-type: none"> 1. Improvement Kata simulation game (Team identity and values, Continuous improvement management) 2. Competence development management. 3. Lean management tools. 4. Learning to see. Value stream mapping using the Makigami method: <ul style="list-style-type: none"> • 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 • Communication of changes 																				
Prerequisites and co-requisites																					
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 712 794 745">Subject passing criteria</th> <th data-bbox="794 712 1142 745">Passing threshold</th> <th data-bbox="1142 712 1492 745">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 750 794 779">quizes</td> <td data-bbox="794 750 1142 779">75.0%</td> <td data-bbox="1142 750 1492 779">20.0%</td> </tr> <tr> <td data-bbox="453 784 794 813">skills matrix</td> <td data-bbox="794 784 1142 813">80.0%</td> <td data-bbox="1142 784 1492 813">6.0%</td> </tr> <tr> <td data-bbox="453 817 794 846">one point lesson</td> <td data-bbox="794 817 1142 846">60.0%</td> <td data-bbox="1142 817 1492 846">15.0%</td> </tr> <tr> <td data-bbox="453 851 794 880">project</td> <td data-bbox="794 851 1142 880">60.0%</td> <td data-bbox="1142 851 1492 880">39.0%</td> </tr> <tr> <td data-bbox="453 884 794 943">Implementation of the development plan</td> <td data-bbox="794 884 1142 943">80.0%</td> <td data-bbox="1142 884 1492 943">20.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	quizes	75.0%	20.0%	skills matrix	80.0%	6.0%	one point lesson	60.0%	15.0%	project	60.0%	39.0%	Implementation of the development plan	80.0%	20.0%
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Recommended reading	Basic literature	<p>Cel I. [T.] 1, Doskonałość w produkcji. Eliyahu M. Goldratt i Jeff Cox</p> <p>Pięć dysfunkcji pracy zespołowej. Opowieść o przywództwie. Patric Lencioni</p> <p>Zaczynaj od dlaczego. Jak wielcy liderzy inspirują innych do działania. Simon Sinek</p> <p>Poradnik Młodego Lean Lidera. red. Joanna Czerska</p> <p>Naucz się widzieć. Metoda mapowania strumienia wartości. John Shook, ,Mike Rother</p>																			
	Supplementary literature	<p>1.Narzędzia Lean Management. Joanna Czerska</p> <p>2.Doskonalenie strumienia wartości. Joanna Czerska</p>																			
	eResources addresses	<p>Adresy na platformie eNauczenie:</p> <p>Lean Management 2023 - Moodle ID: 24554 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24554</p>																			
Example issues/ example questions/ tasks being completed	<p>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=9489</p>																				
Work placement	Not applicable																				