



## Subject card

Subject name and code	Lean Management, PG_00049446						
Field of study	Engineering Management						
Date of commencement of studies	October 2020	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	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. Joanna Czerska				
	Teachers		mgr Anna Wendt dr inż. Joanna Czerska				
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						
Lean Management Zima 2022 - Moodle ID: 24558 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24558">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24558</a>							
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	<p>The aim of the Lean Management course is to introduce students to the world of management concepts based on the Toyota Production System (TPS - Toyota Production System)</p> <p>The purpose of theoretical material (lectures) is to familiarize students with the WHY?, i.e. the reasons why knowledge of Lean Management and skills that students will develop during classes are of value to enterprises and its employees.</p> <p>The aim of the exercises is to support students in developing 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_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		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
[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.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			

Subject contents	<p>Introduction to Lean Management and Toyota Production System (L)  Phases of building a team focused on a common goal according to Patric Lencioni (L)  Start with why. The concept of Simon Sink (L)  10 principles of Kaizen (L)  3 types of security in the enterprise. Financial, mental and physical (L)  3 company votes. The voice of the customer, the voice of the company and the voice of the employee. (L)  Management by values (L, EX)  Improvement Kata simulation game (EX)  1. Team identity and values  2. Lean Leadership  3. Continuous improvement management</p> <p>Basic Lean Management tools (EX)  Learn to see. Introduction to value stream mapping. (L, EX)  Analysis and improvement of processes on selected examples - case studies (EX)  Problem diagnosis. Diagnosis of the state of the existing process  Setting a goal for change. Building a process vision  Identifying root causes and designing improvement actions  Planning changes using a road map  Communication of changes</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 842 794 869">Subject passing criteria</th> <th data-bbox="799 842 1137 869">Passing threshold</th> <th data-bbox="1142 842 1481 869">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 875 794 902">individual task</td> <td data-bbox="799 875 1137 902">60.0%</td> <td data-bbox="1142 875 1481 902">35.0%</td> </tr> <tr> <td data-bbox="456 909 794 936">team project</td> <td data-bbox="799 909 1137 936">60.0%</td> <td data-bbox="1142 909 1481 936">50.0%</td> </tr> <tr> <td data-bbox="456 943 794 969">on-line course quizzes</td> <td data-bbox="799 943 1137 969">75.0%</td> <td data-bbox="1142 943 1481 969">15.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	individual task	60.0%	35.0%	team project	60.0%	50.0%	on-line course quizzes	75.0%	15.0%
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Cel I. [T.] 1, Doskonałość w produkcji. Eliyahu M. Goldratt i Jeff Cox 2008</p> <p>Pięć dysfunkcji pracy zespołowej. Opowieść o przywództwie. Patric Lencioni, 2002</p> <p>Zaczynaj od dłaczego. Jak wielcy liderzy inspirują innych do działania. Simon Sinek, 2009</p> <p>Poradnik Młodego Lean Lidera. red. Joanna Czerska, 2, 2016</p> <p>Naucz się widzieć. Metoda mapowania strumienia wartości. John Shook, ,Mike Rother. 2017</p> <p>1. To jest Lean, Niclas Modig, Par Ahlstrom  2. 2 second lean Paul Akers  3. Narzędzia Lean Management. Joanna Czerska  4. Doskonalenie strumienia wartości. Joanna Czerska</p>													
Example issues/ example questions/ tasks being completed															
Work placement	Not applicable														