



Subject card

Subject name and code	Lean Management, PG_00049446						
Field of study	Engineering Management						
Date of commencement of studies	October 2019	Academic year of realisation of subject				2021/2022	
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				blended-learning	
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		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	8.0	16.0	0.0	0.0	0.0	24
	E-learning hours included: 8.0						
Lean Management. Joanna Czerska_zima_2021/22_NSTACJ - Moodle ID: 16309 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16309							
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_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		
	[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		

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="459 629 794 656">Subject passing criteria</th> <th data-bbox="802 629 1137 656">Passing threshold</th> <th data-bbox="1145 629 1481 656">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="459 660 794 687">tasks fulfilment</td> <td data-bbox="802 660 1137 687">80.0%</td> <td data-bbox="1145 660 1481 687">30.0%</td> </tr> <tr> <td data-bbox="459 692 794 719">development plan fulfilment</td> <td data-bbox="802 692 1137 719">90.0%</td> <td data-bbox="1145 692 1481 719">20.0%</td> </tr> <tr> <td data-bbox="459 723 794 750">on-line cours quizzes</td> <td data-bbox="802 723 1137 750">70.0%</td> <td data-bbox="1145 723 1481 750">25.0%</td> </tr> <tr> <td data-bbox="459 754 794 781">project</td> <td data-bbox="802 754 1137 781">60.0%</td> <td data-bbox="1145 754 1481 781">25.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	tasks fulfilment	80.0%	30.0%	development plan fulfilment	90.0%	20.0%	on-line cours quizzes	70.0%	25.0%	project	60.0%	25.0%
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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</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> <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																	